



INL Lithologic Core Storage Library

Idaho National Laboratory
Building CFA-663
Operated by the U.S. Geological Survey
for the U.S. Department of Energy

Contact:
Linda C. Davis
PO Box 8072
Pocatello, ID.
83209

Official Name:USGS 132

Logged By: M.K. Hodges, June 2004

Selected Aliases: USGS 132

USGS Site ID:432906113025001

Contractor Well ID:none yet

Drilling Agency: USGS

Year Drilled: 2004

Names of Drillers: M. Gilbert and M. Vance

Well Status: Complete

Total Depth of Hole (ft): 1,238

Total Core Recovered (ft):1,234

Beginning Depth (ft): 9

Ending Depth (ft): 1,238

☒ Continuous Recovery

☐ Selected Intervals Recovered

Total # of Core Boxes: 145

County & State: Butte County, ID.

Quadrangle Name: Big Southern Butte

Lat / Lng: 43° 29' 06.68" 113° 02' 50.93" NAD27

Tns / Rng / Sec: 02N 29E 19 cab1

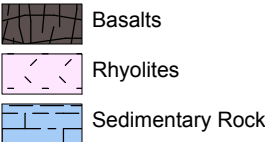
UTM Coordinates: 12N 334425.709 4816517.231

Altitude (ft): 5,028 (ft) NDVD29

Notes: Sediment samples to Kari Winfield 25 June 2004, photographed by Linda C. Davis; selected samples removed for paleomagnetic analysis by Duane Champion, Volcanic Hazards Team,

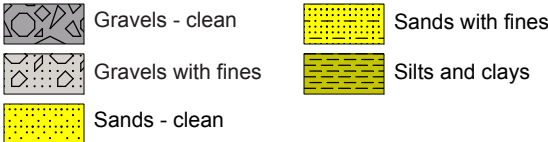
Core Geological Profile

Lithologic Patterns

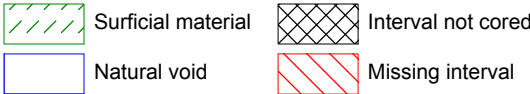


Soil Patterns

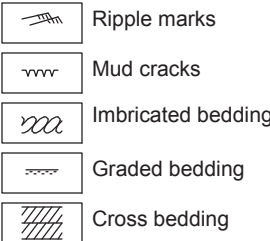
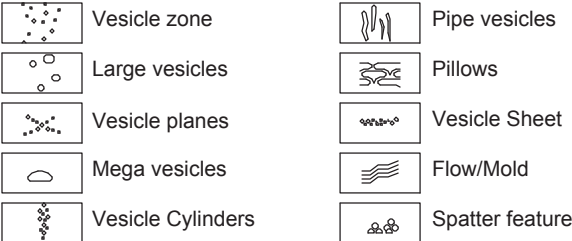
(See Unified Soil Classification System.)



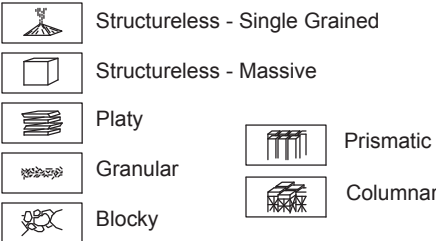
Intervals in Absentia



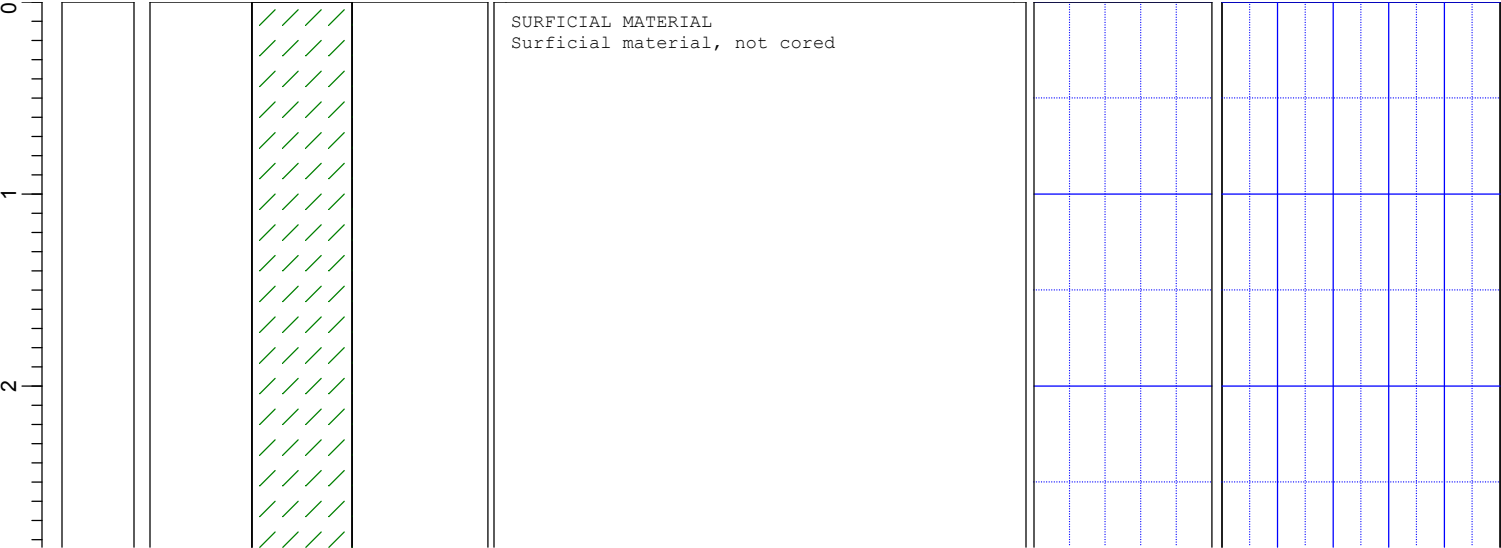
Igneous and Sedimentary Structure Symbols

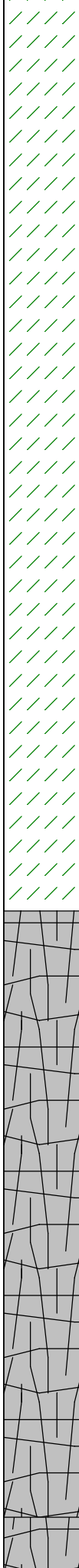


Soil Structure Symbols



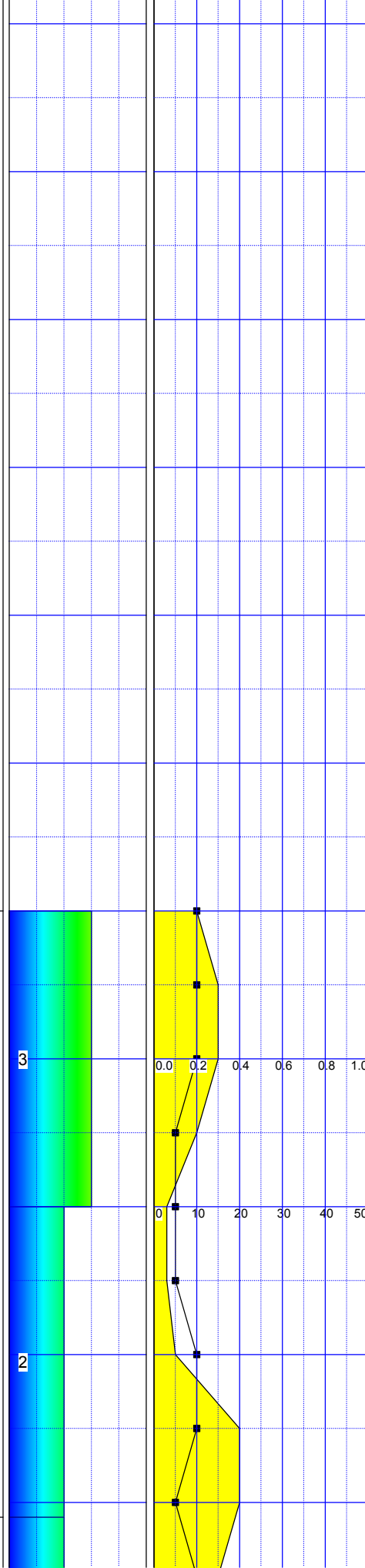
Depth (feet & tenths)	Core Photo	Igneous, Soil and Sed Structures	Lithology	Description		Fracture Frequency (See fracture classification on website.) 0 1 2 3 4 5	Vesicle Characteristics Mean Size (in) 0 0.2 0.4 0.6 0.8 1.0 Volume Percentage 0 10 20 30 40 50
				Miscellaneous Text	Lithologic Description		

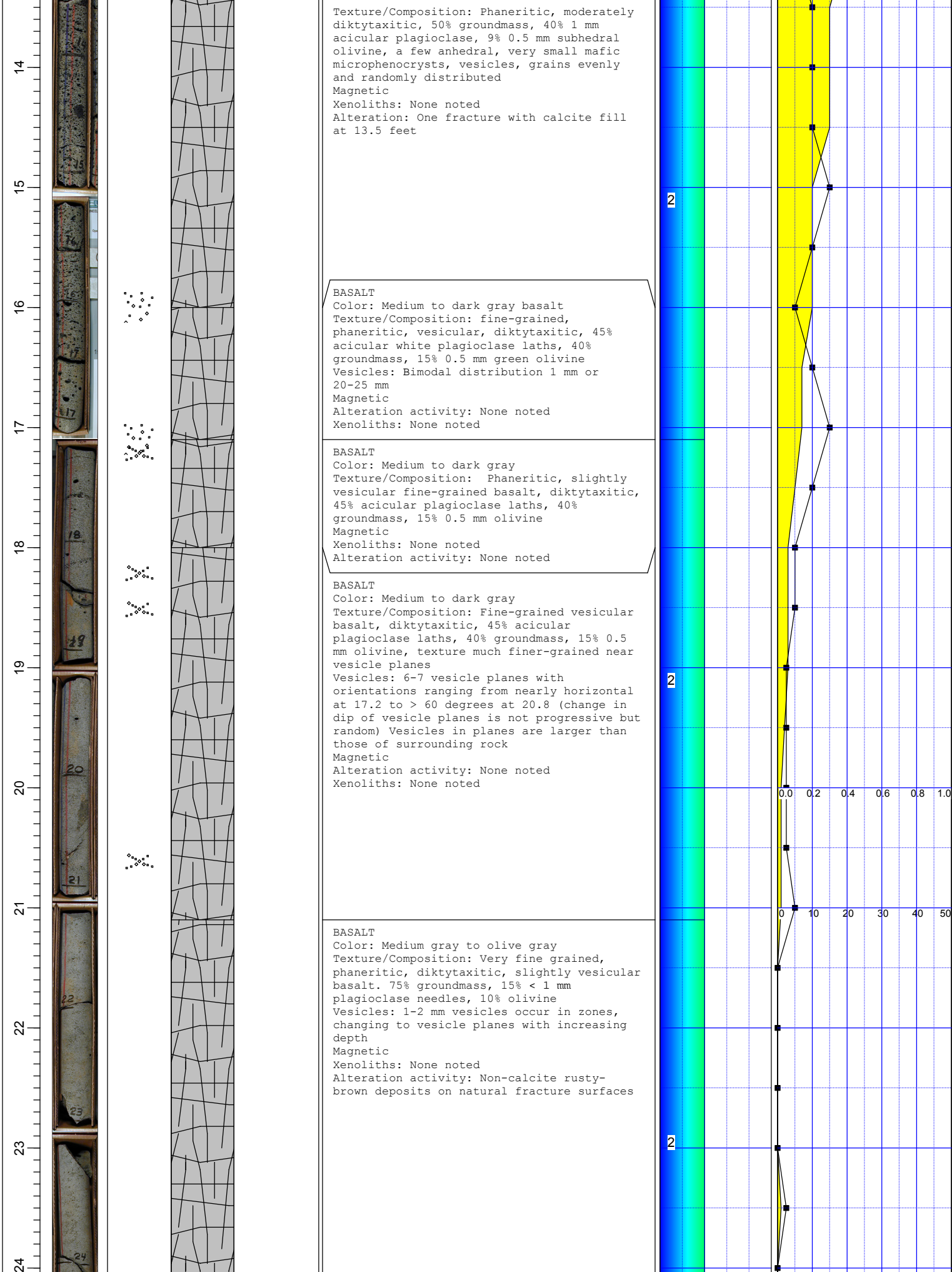


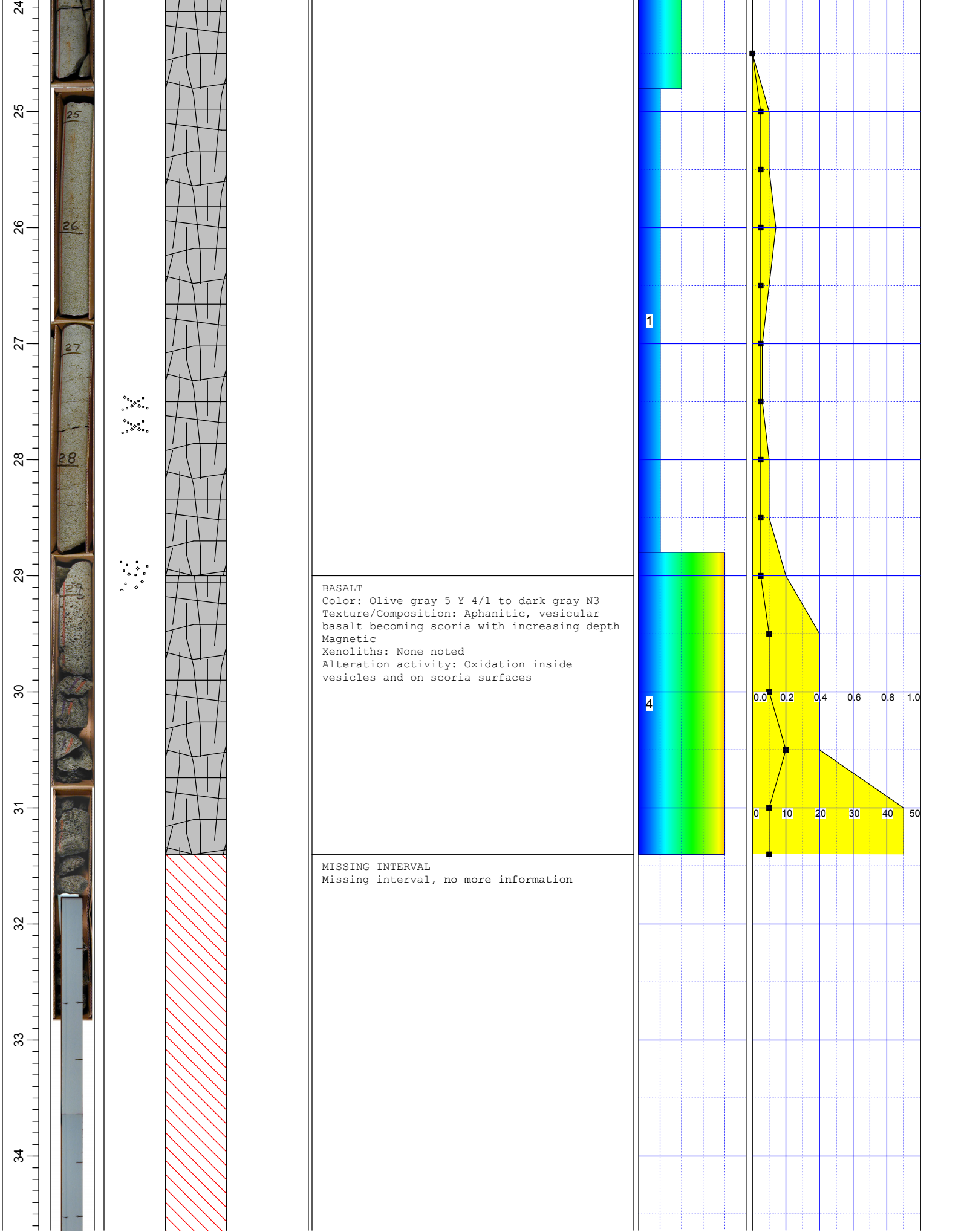


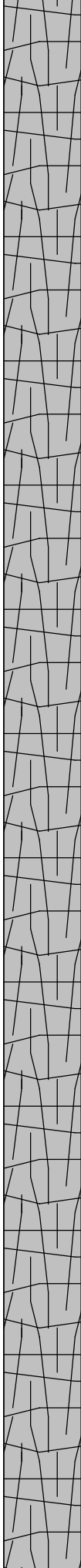
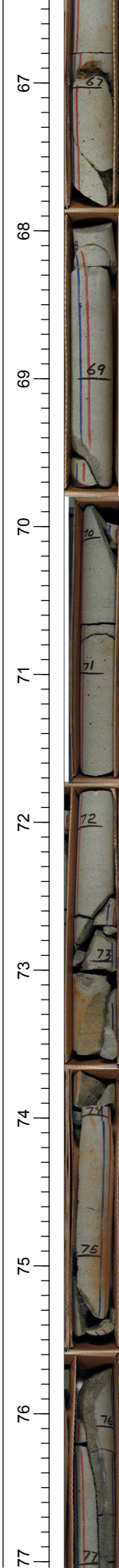
BASALT
Color: Medium gray
Texture/Composition: Phaneritic fine-grained vesicular basalt, 50% groundmass, 35% 1 mm acicular plagioclase, 10% subhedral to euhedral green olivine, trace subhedral pyroxene, crystals randomly oriented and evenly distributed
Vesicles: Evenly distributed vesicles range from 1 mm to 20 mm, avg. 6 mm, % of vesicles increases with depth
Magnetic
Xenoliths: None noted
Alteration: None noted

BASALT
Color: Medium to dark gray phaneritic vesicular basalt

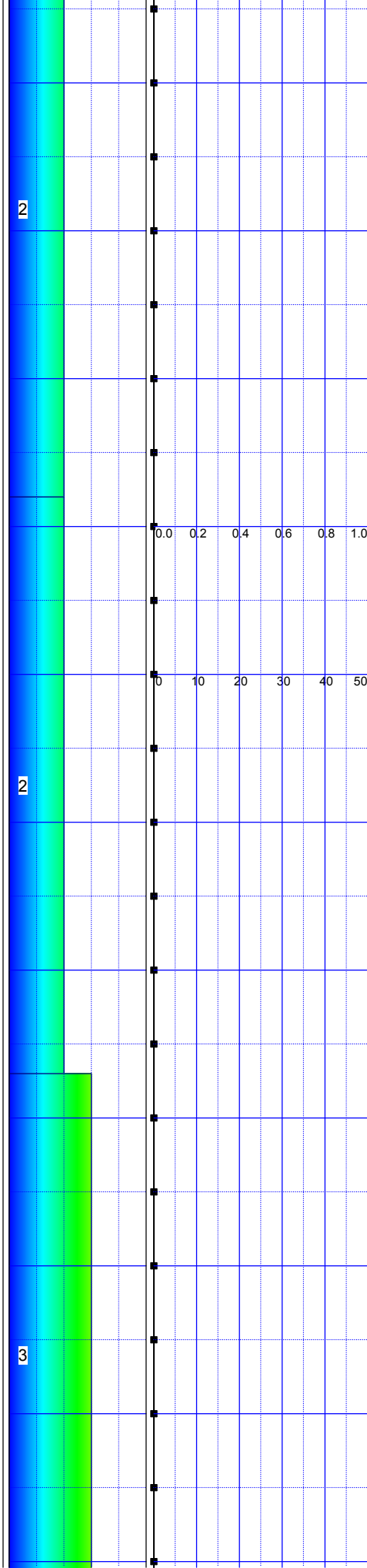


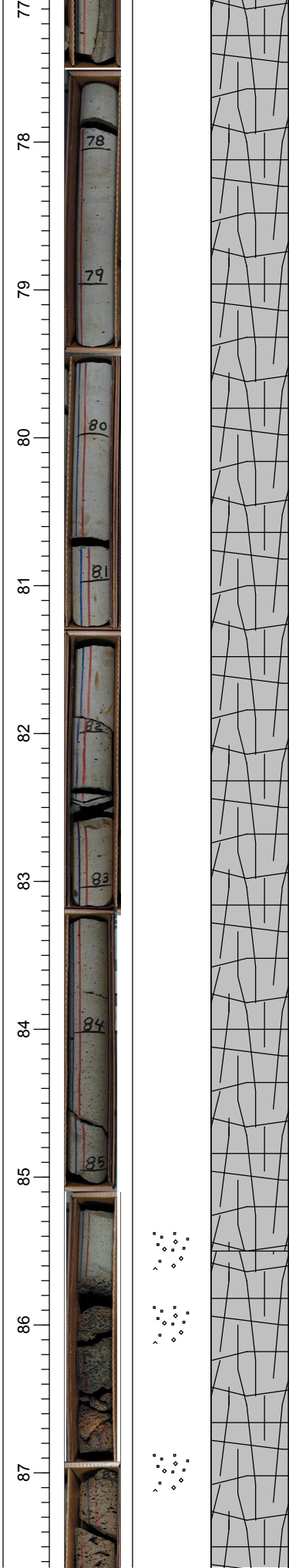




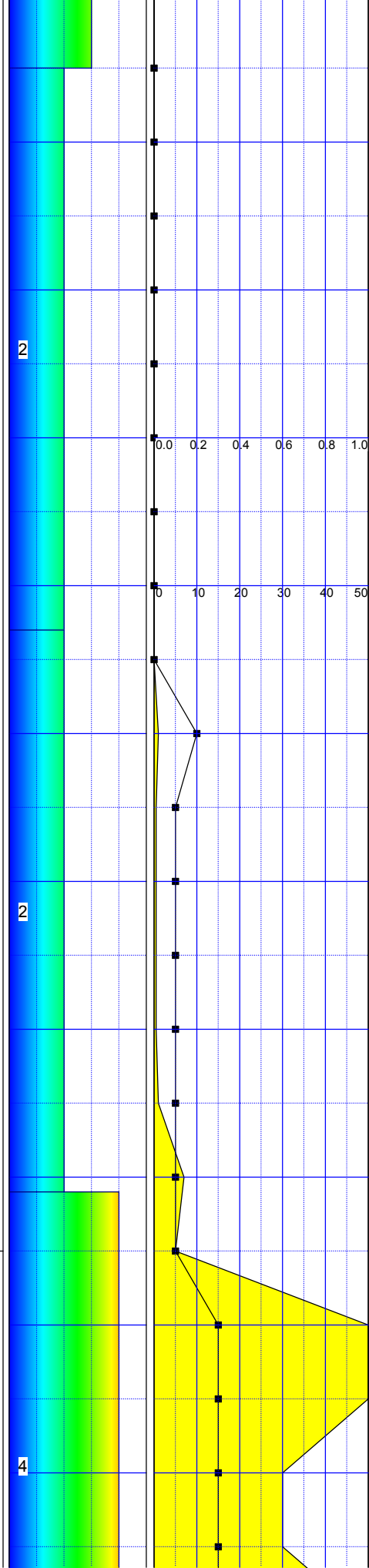


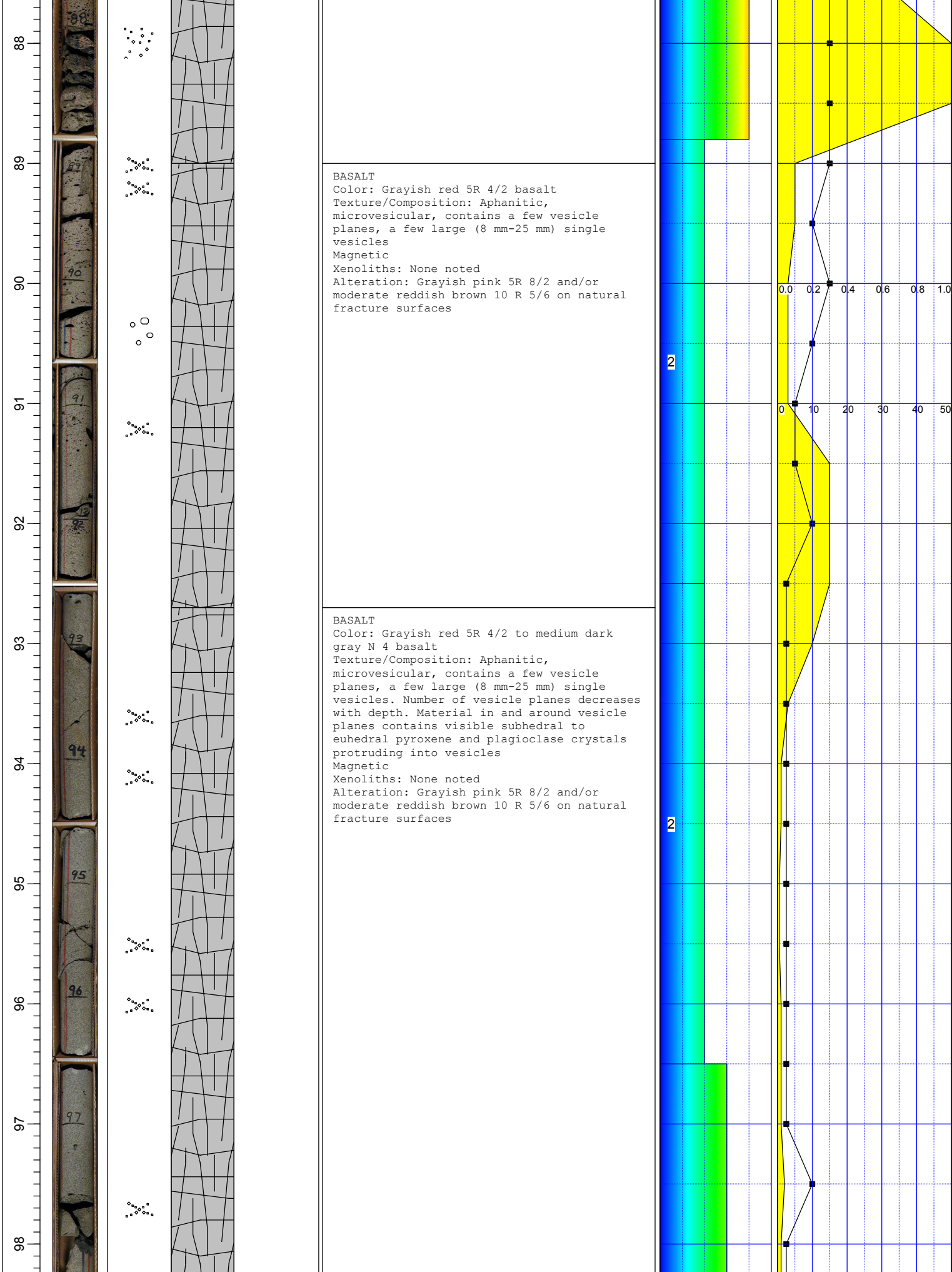
and white,
non-calcite
plate-like
crystals

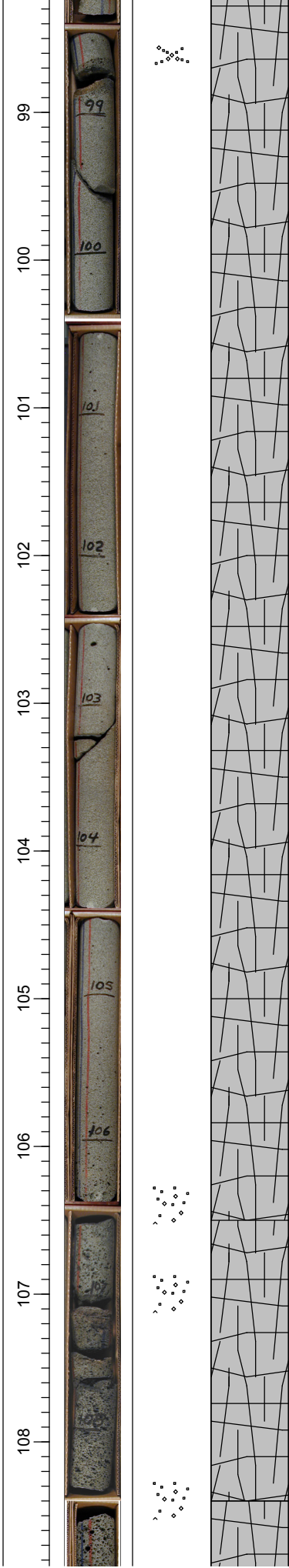




BASALT
Color: Dark gray N3 to grayish red 5R 4/2
basalt scoria
Texture/Composition: Aphanitic, extremely
vesicular, fragmented basalt
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish orange 10 R
6/6 film on fractures and surfaces, moderate
orange pink 10 R 7/4 massive chalky but
non-calcite fill in some vesicles and
cracks

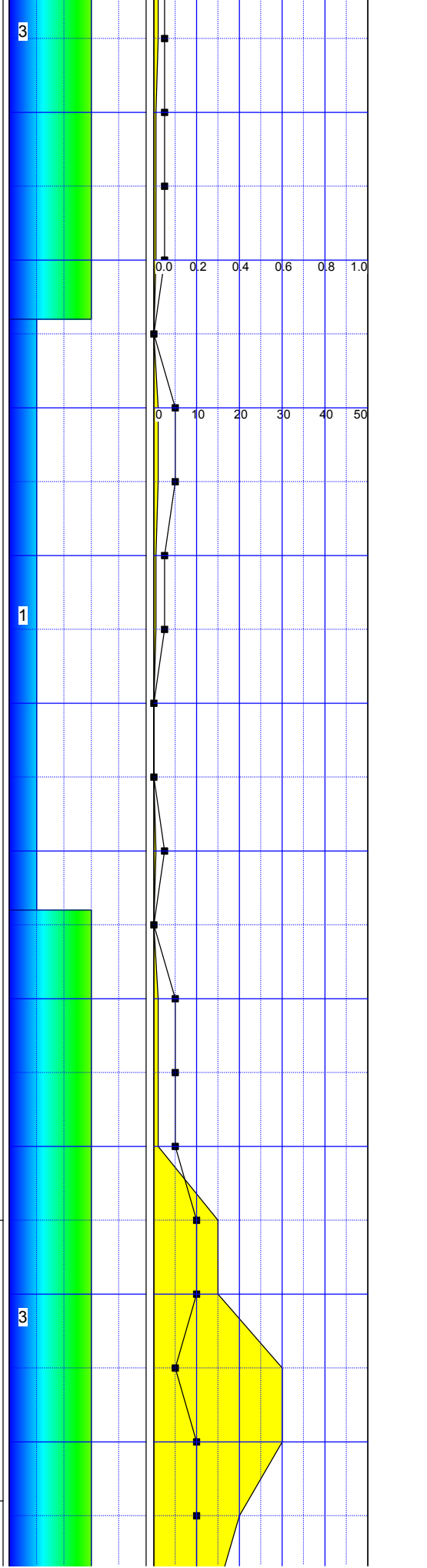


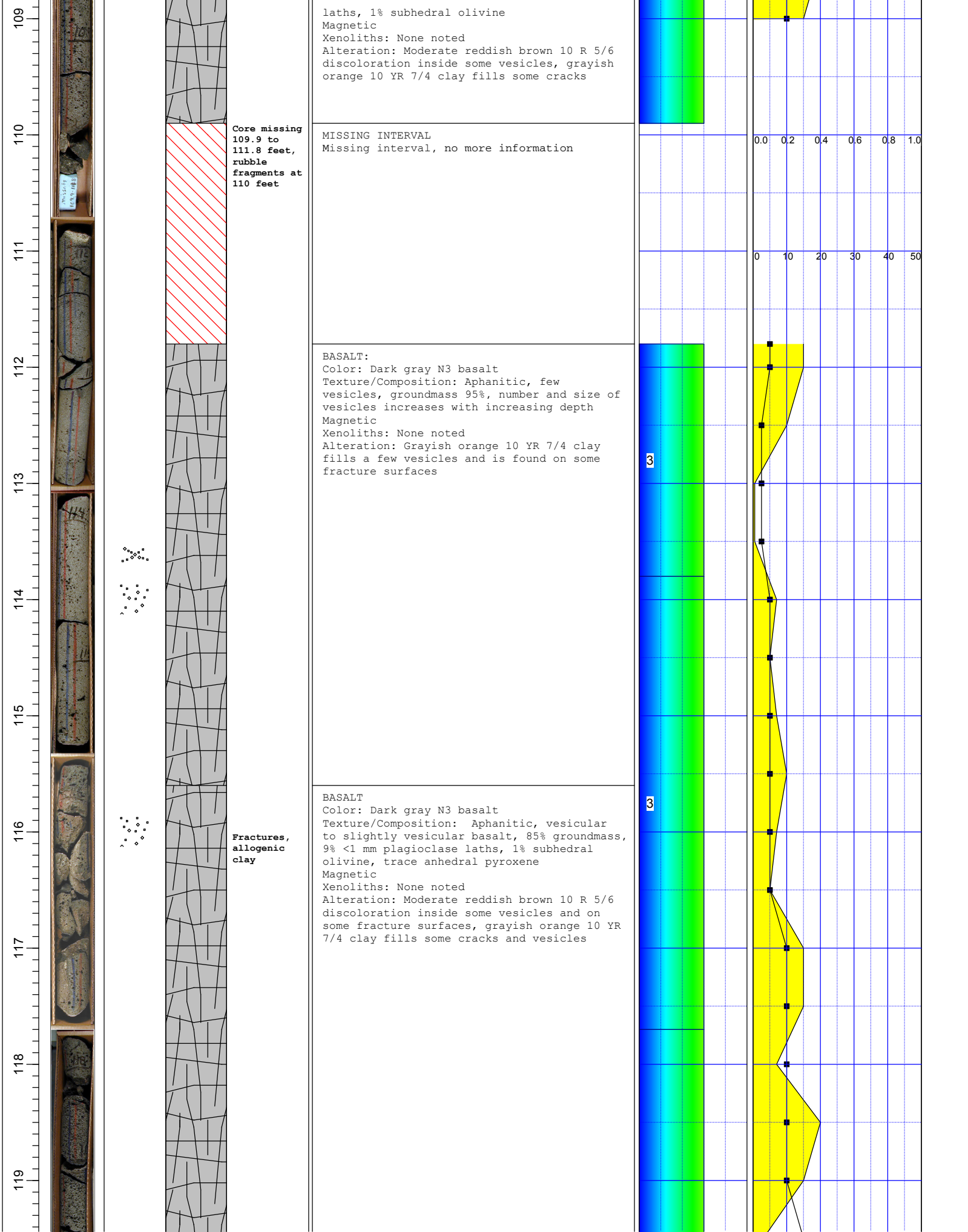


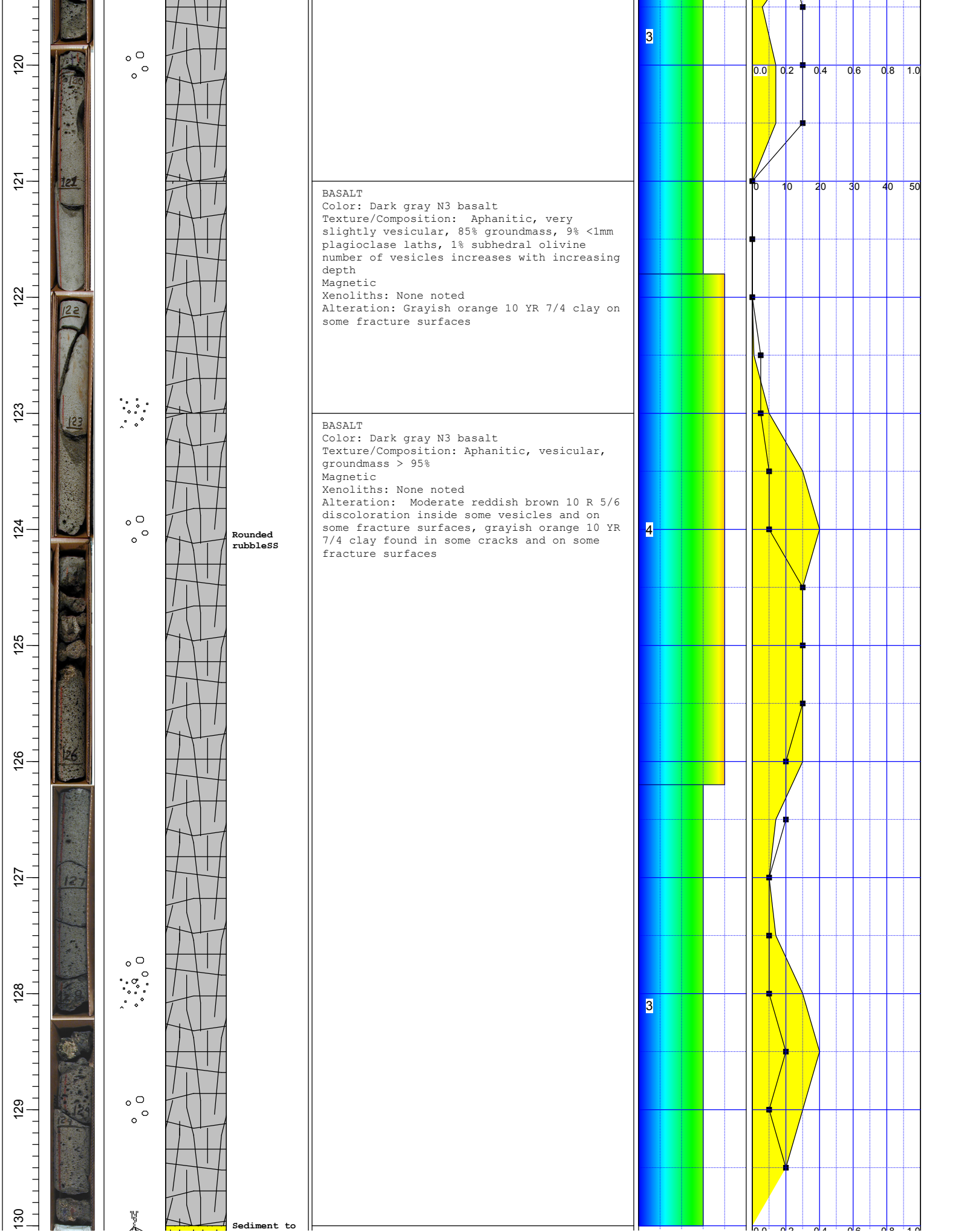


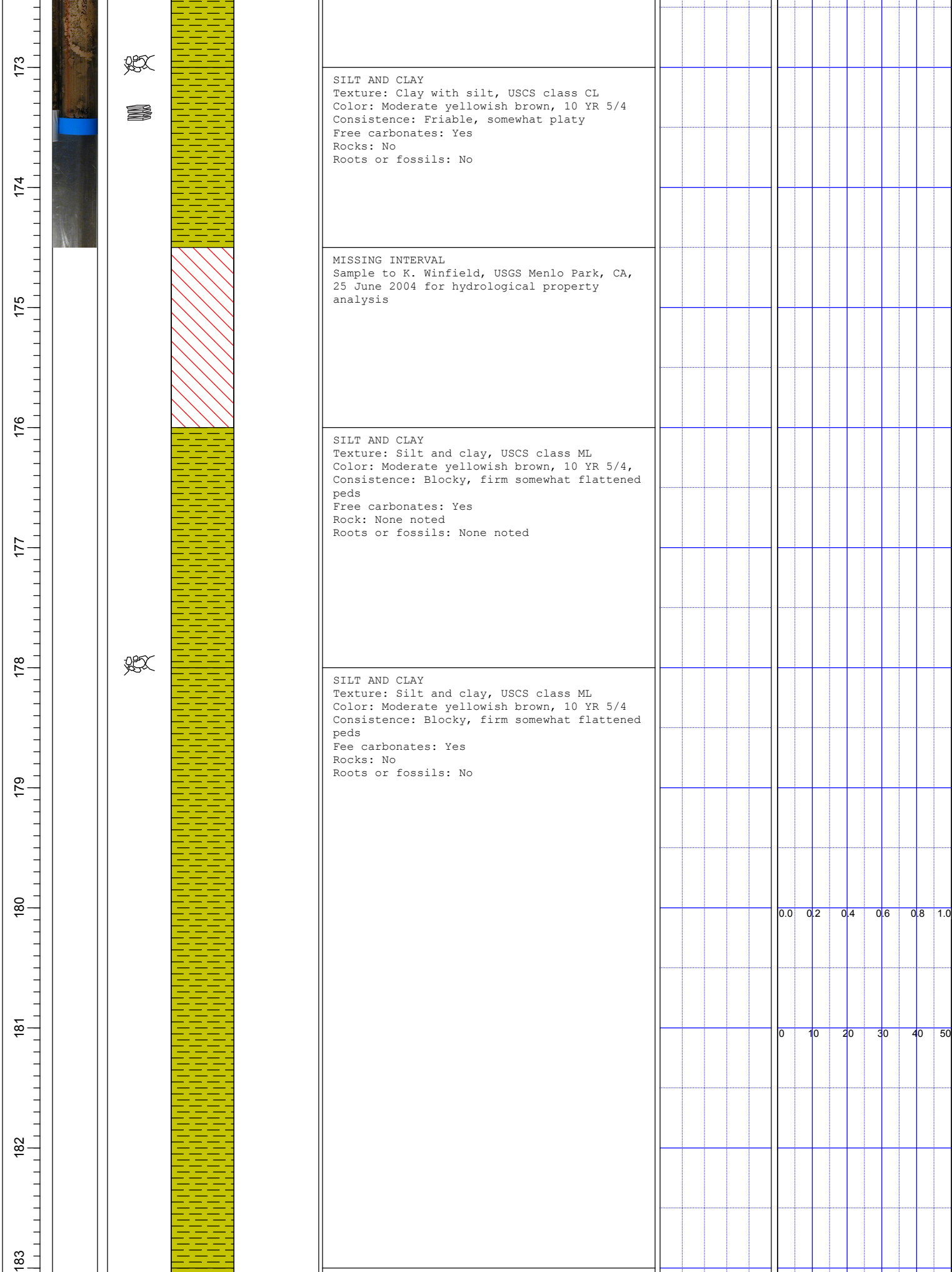
BASALT
Color: Dark gray N3 basalt
Texture/Composition: Aphanitic, vesicular
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown 10 R 5/6 on natural fracture surfaces, grayish orange 10 YR 7/4 clay fills one crack

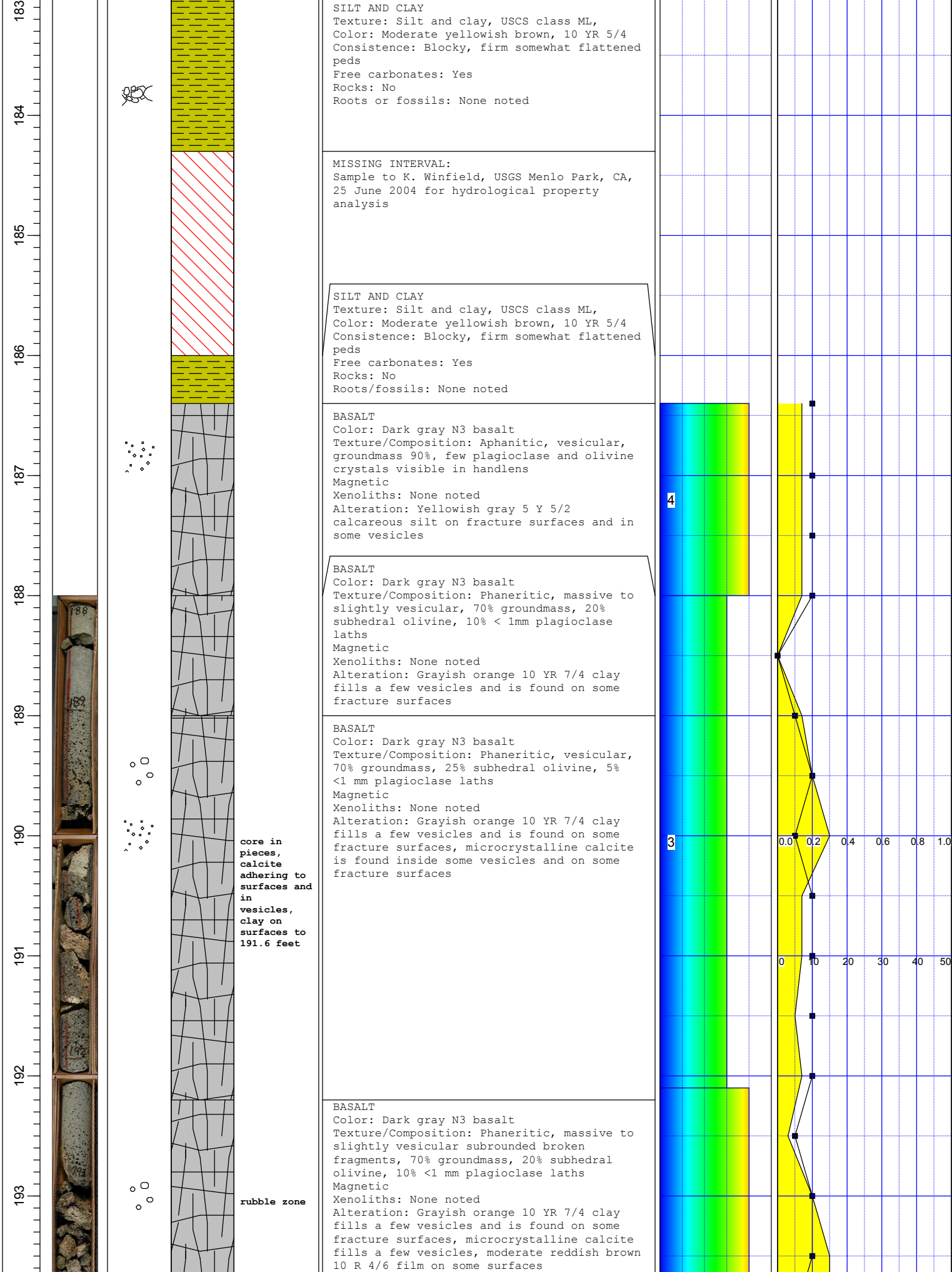
BASALT
Color: Dark gray N3 basalt
Texture/Composition: Aphanitic, vesicular basalt; 85% groundmass, 9% <1 mm plagioclase

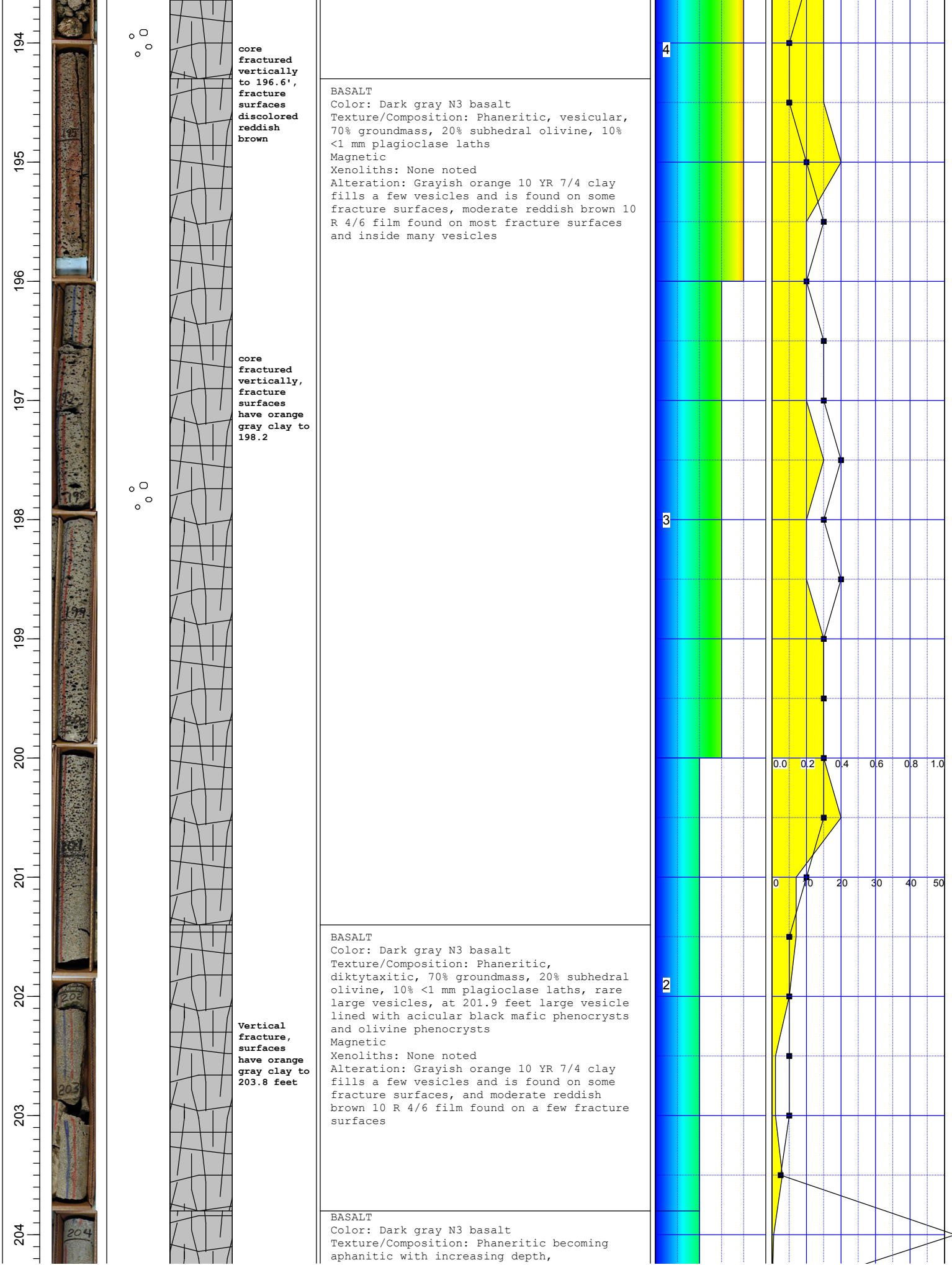


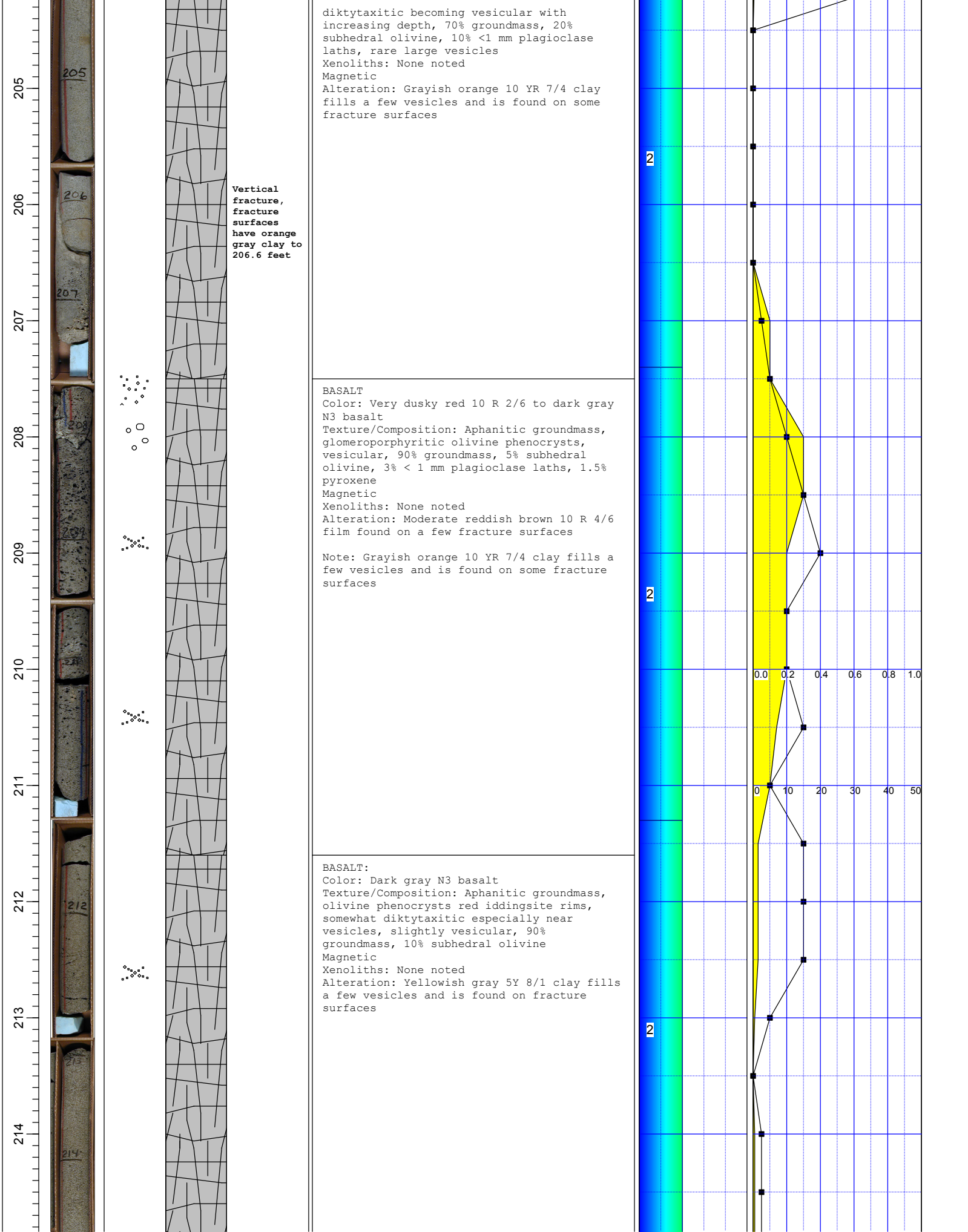


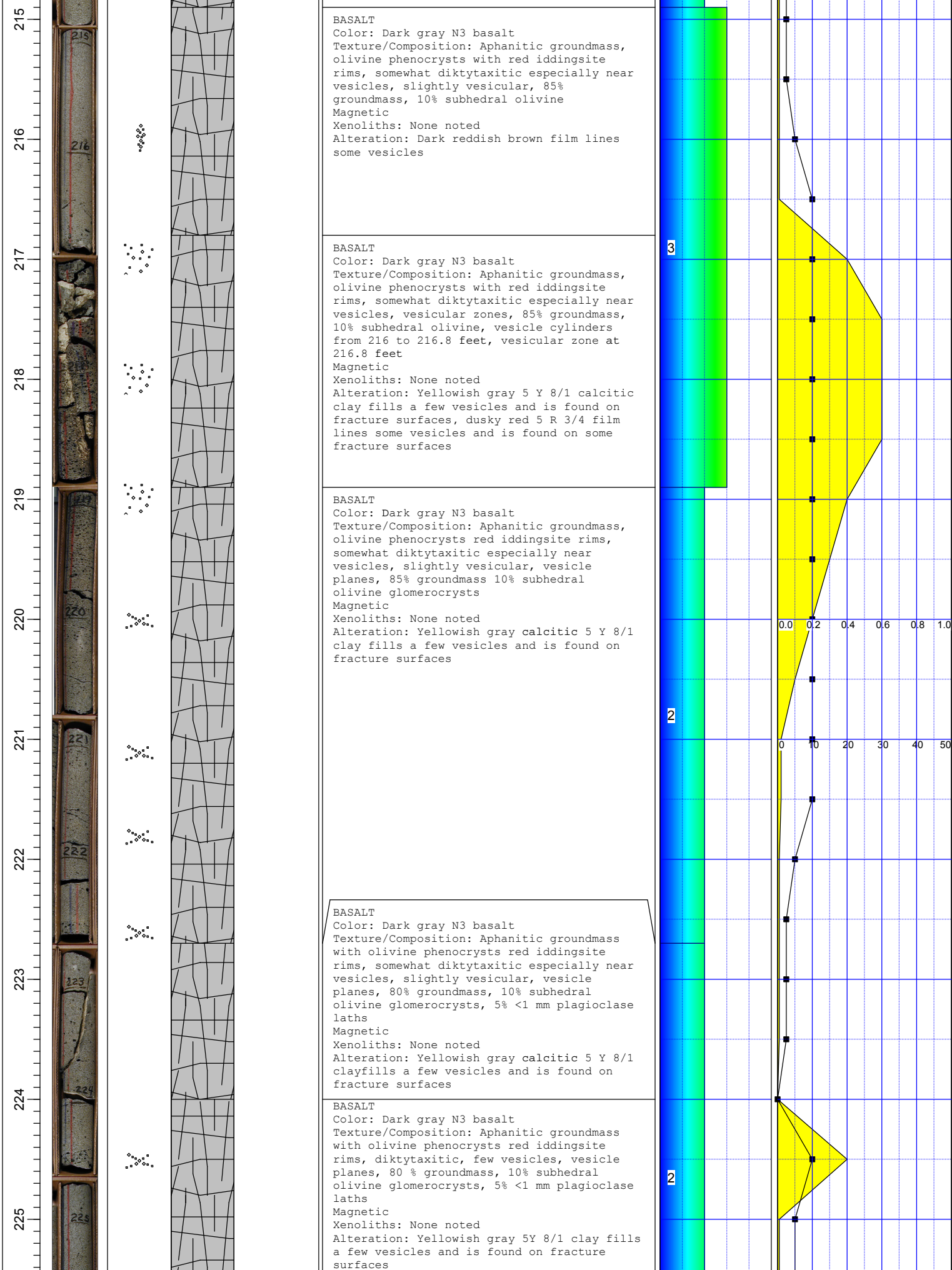


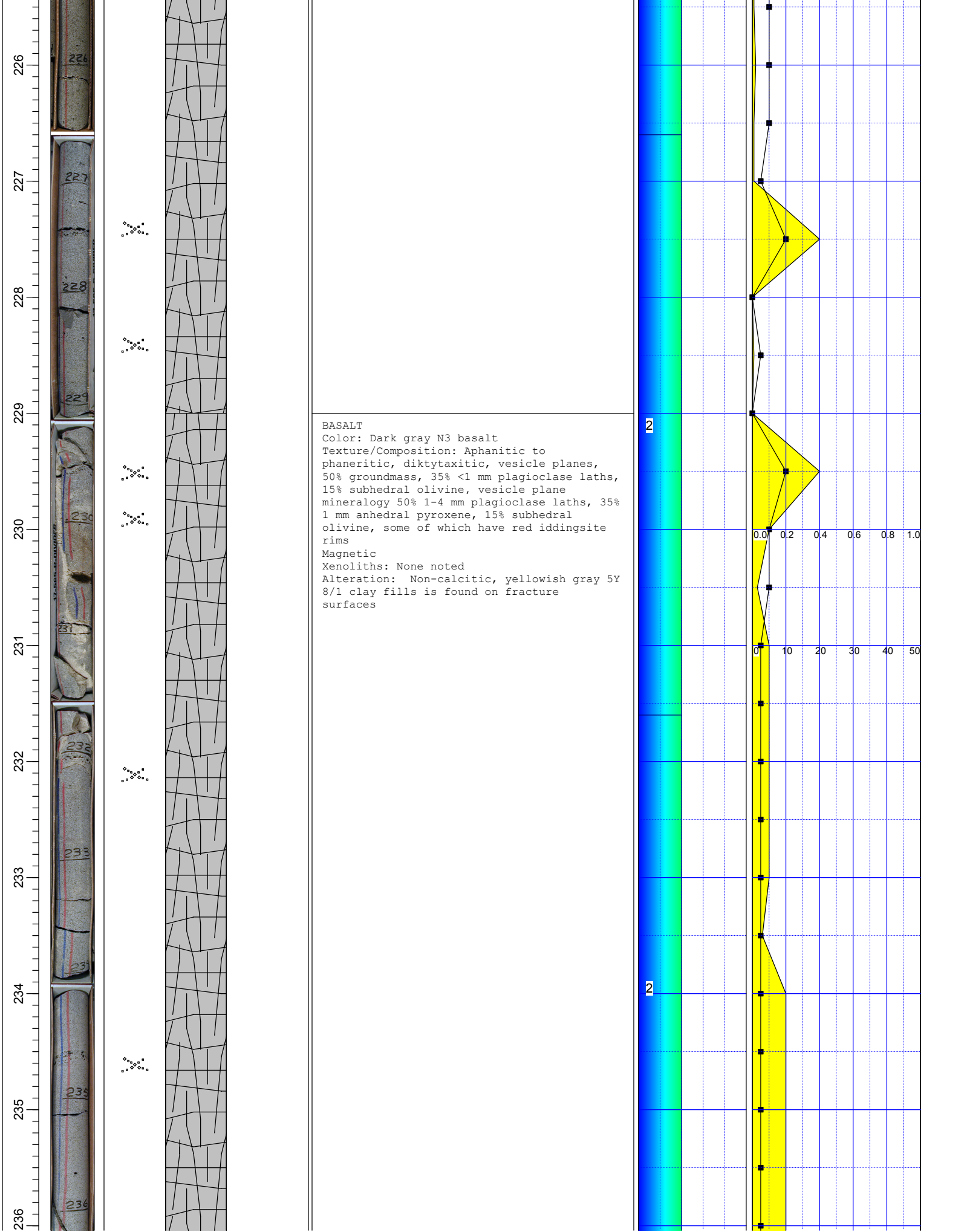


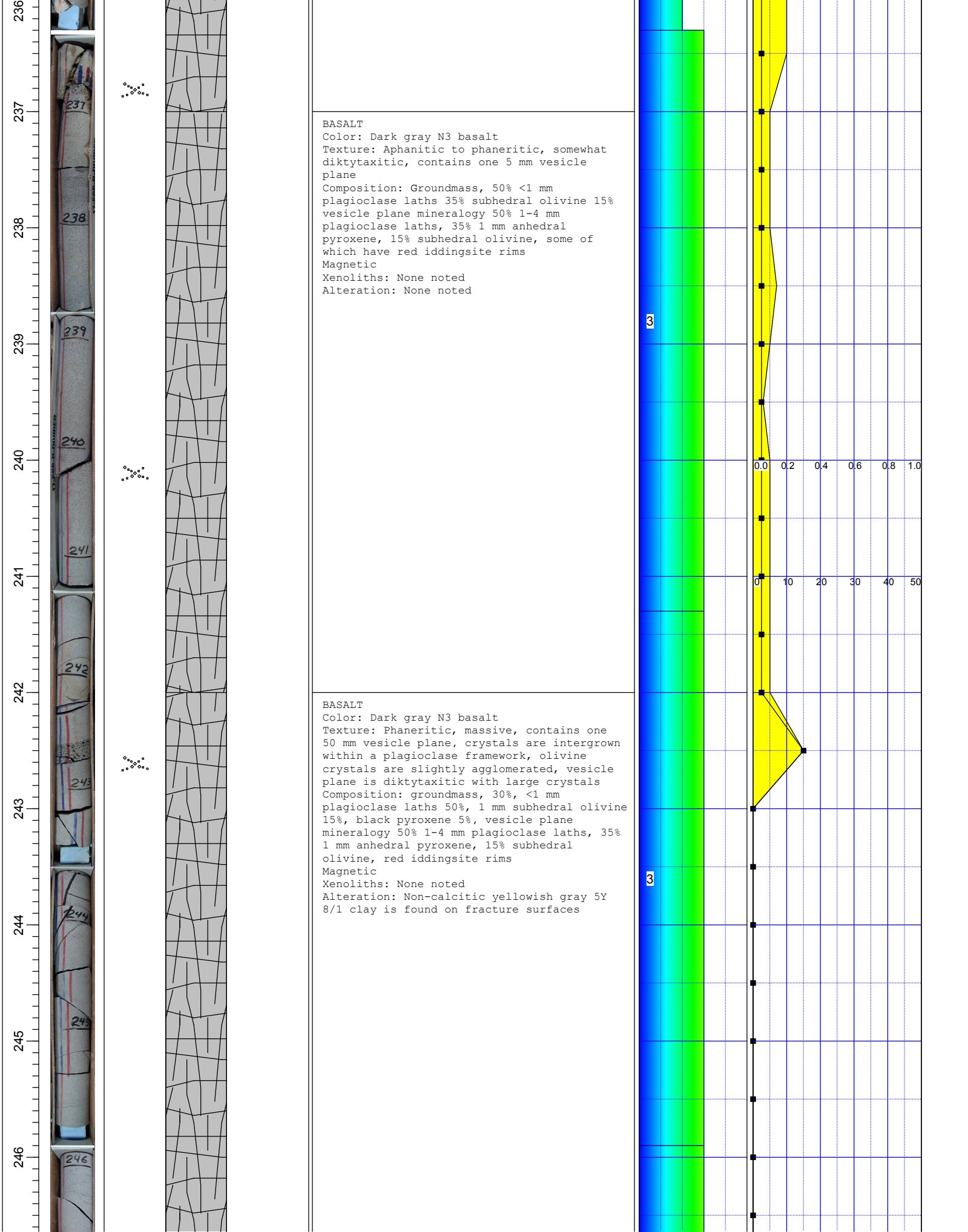


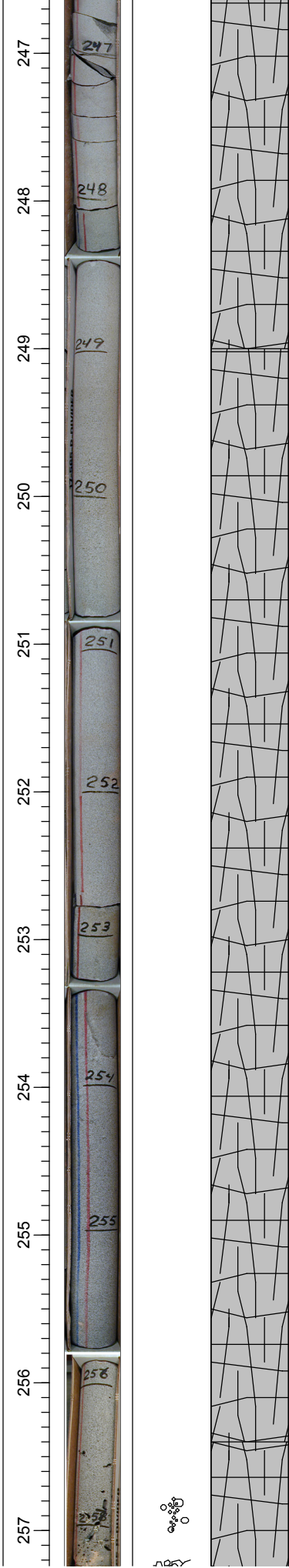










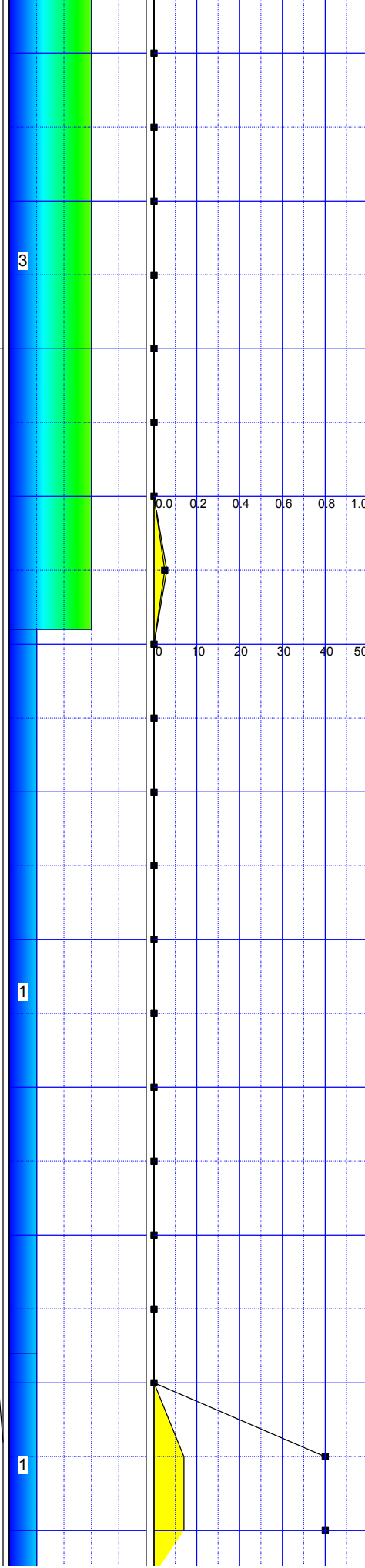


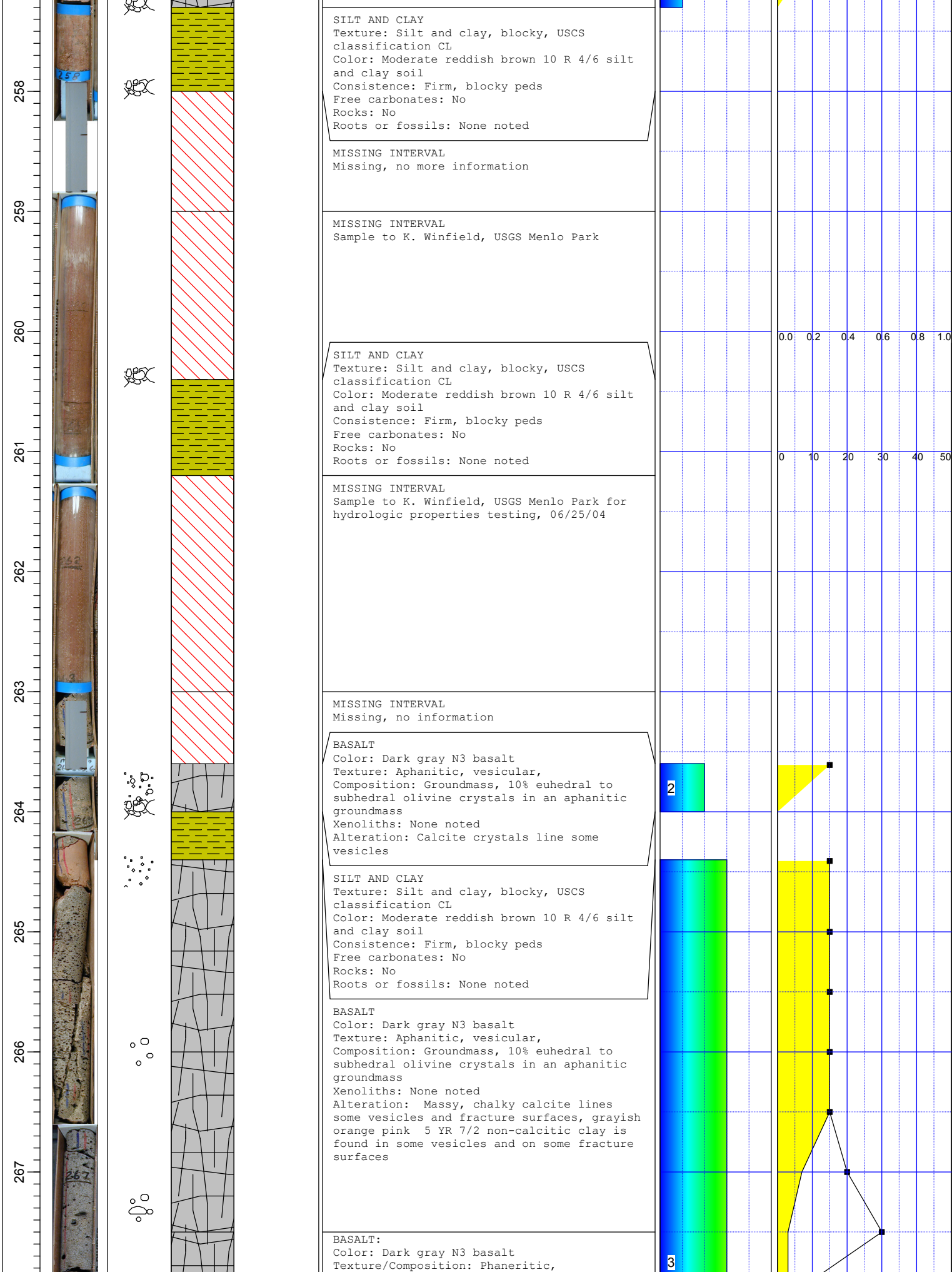
BASALT

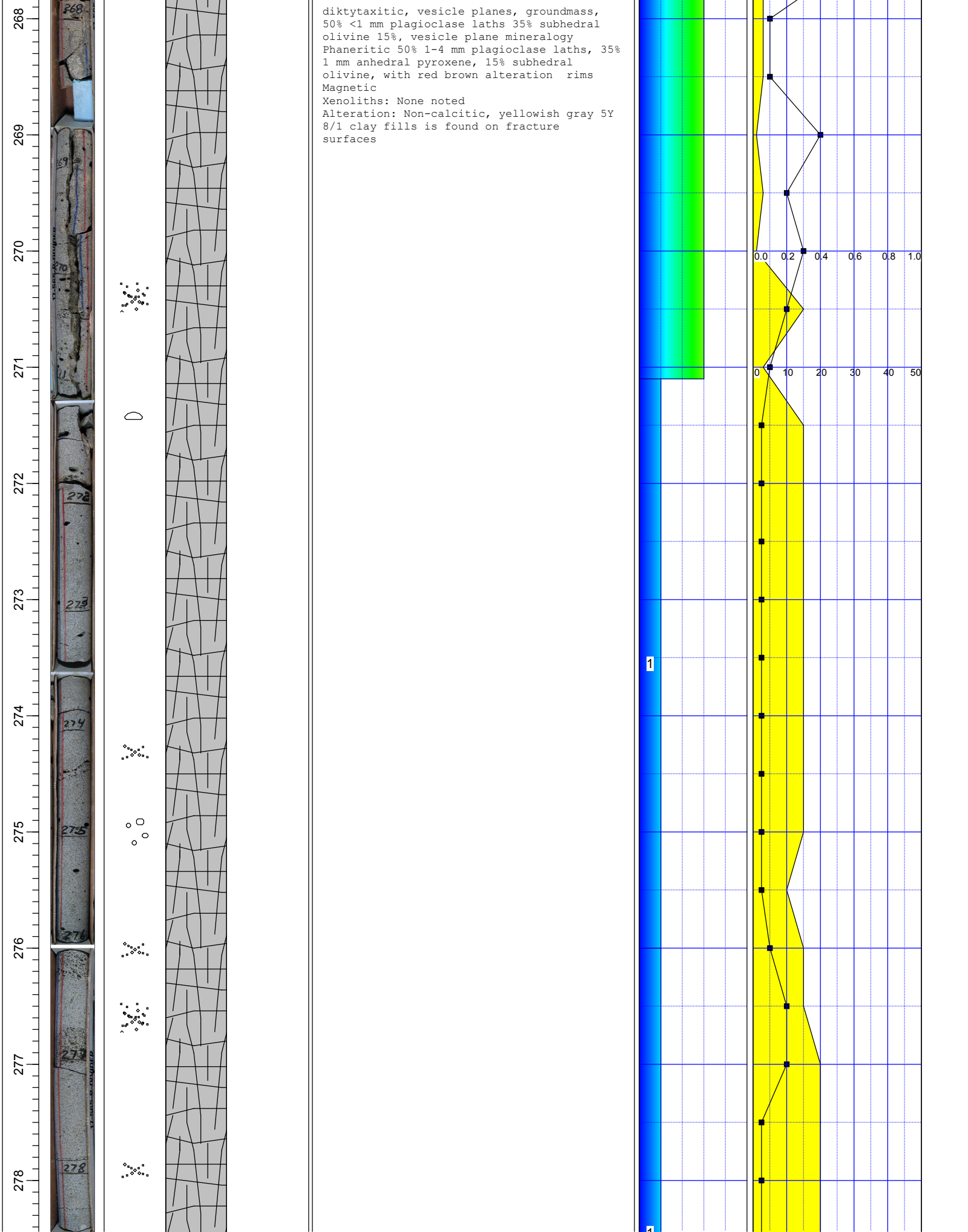
Color: Dark gray N3 basalt
Texture: Phaneritic, massive slightly diktytaxitic: crystals are intergrown within a plagioclase framework, olivine crystals are agglomerated
Composition: Groundmass, 50%, <1 mm plagioclase laths 25-30%, 1mm subhedral olivine 15%-20%, black pyroxene 5%
Magnetic
Xenoliths: None noted
Alteration: Non-calcitic yellowish gray 5Y 8/1 clay is found on fracture surfaces

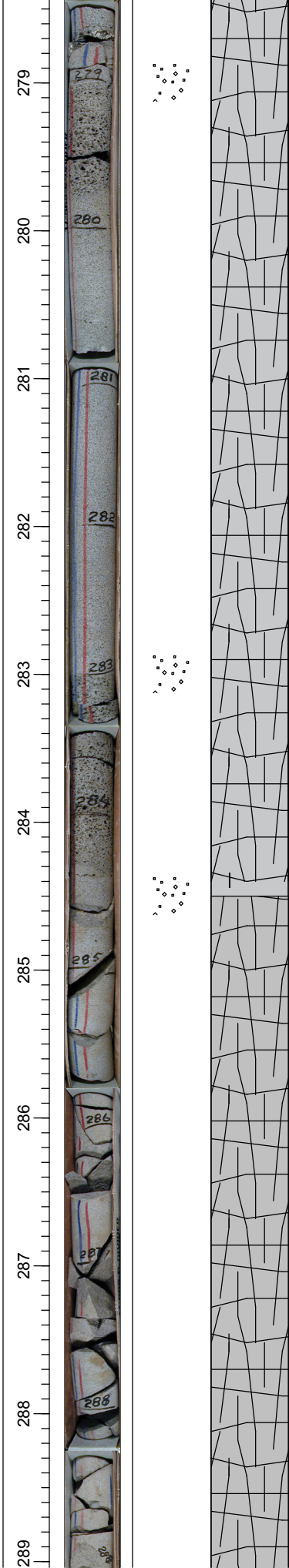
BASALT

Color: Dark gray N3 basalt
Texture: Phaneritic, vesicular, vesicle columns, massive, slightly diktytaxitic: crystals are intergrown within a plagioclase framework, olivine crystals are agglomerated
Composition: Groundmass, 60%, <1 mm plagioclase laths 20%, 1 mm green subhedral olivine 15%-20%
Magnetic
Xenoliths: None noted
Alteration: Calcite crystals line some vesicles

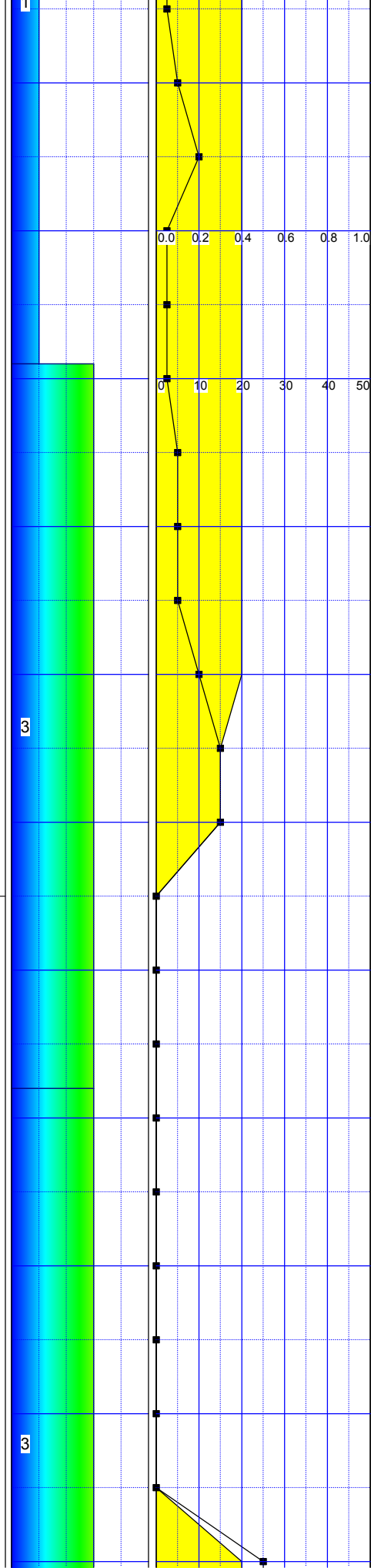


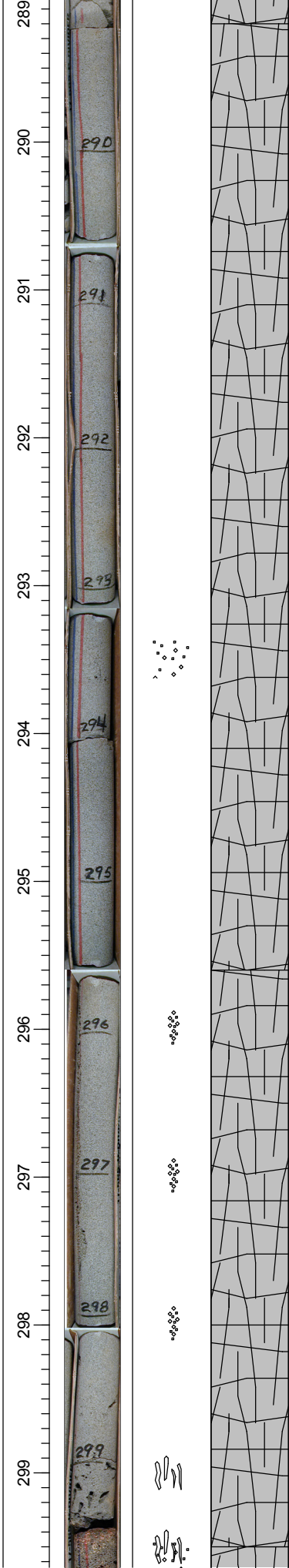






BASALT
Color: Dark gray N3 basalt
Texture/Composition: Phaneritic, framework of <1 mm plagioclase laths 60% subhedral olivine 30%, anhedra pyroxene 10%
Magnetic
Xenoliths: None noted
Alteration: Non-calcitic, yellowish gray 5 Y 8/1 clay fills is found on fracture surfaces

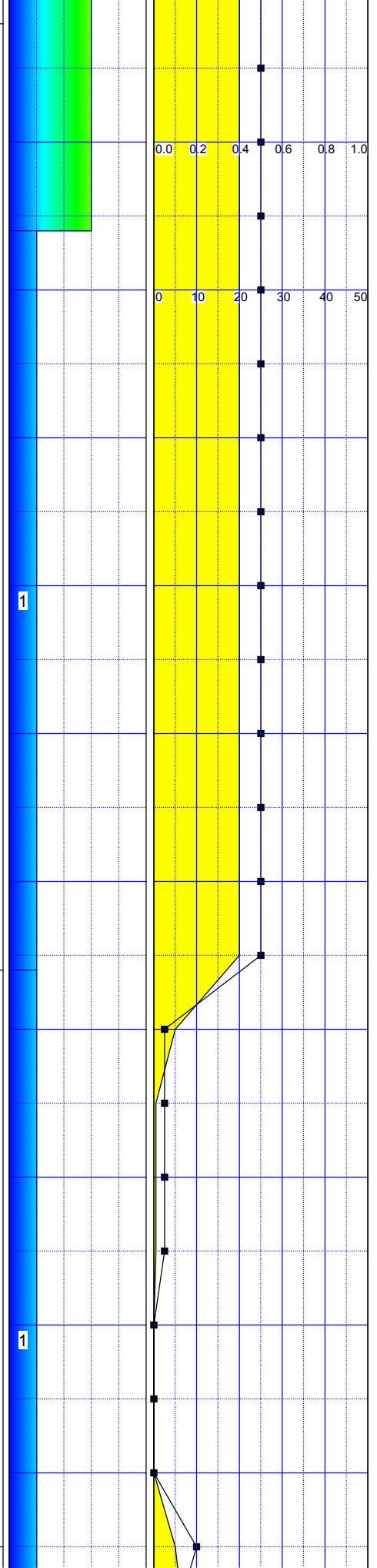


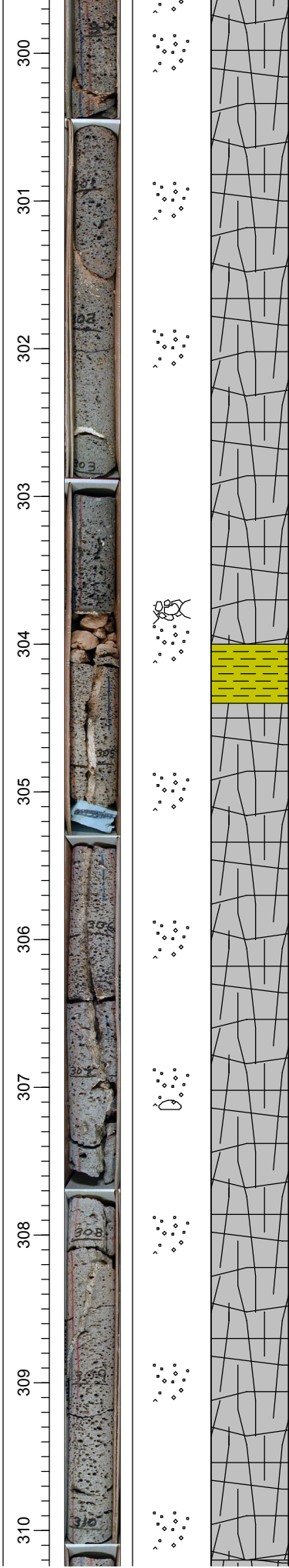


BASALT
Color: Dark gray N3 basalt
Texture/Composition: Phaneritic, diktytaxitic, framework of <1 mm plagioclase laths, 60% subhedral olivine 30%, anhedral pyroxene 10%
Magnetic
Xenoliths: None noted
Alteration: Non-calcite, yellowish gray 5
Y 8/1 clay fills found on fracture surfaces

BASALT
Color: Medium dark gray N4 basalt
Texture/Composition: Phaneritic, diktytaxitic, framework of <1 mm plagioclase laths 60%, subhedral olivine 30%, anhedral pyroxene 10%, glomerocrysts of olivine and pyroxene or hornblende line vesicles in vesicles
Magnetic
Xenoliths: None noted
Alteration: None noted

BASALT

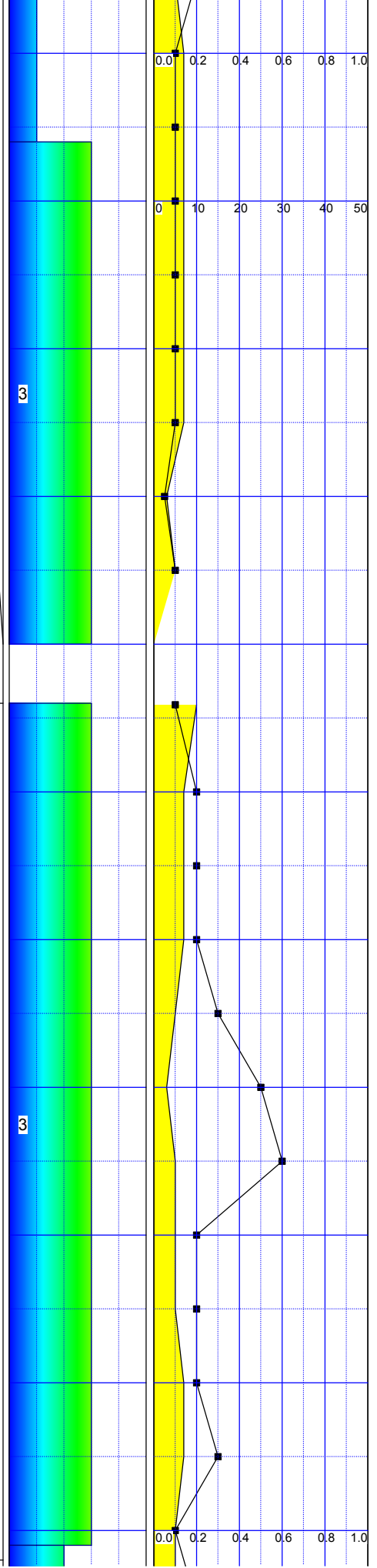


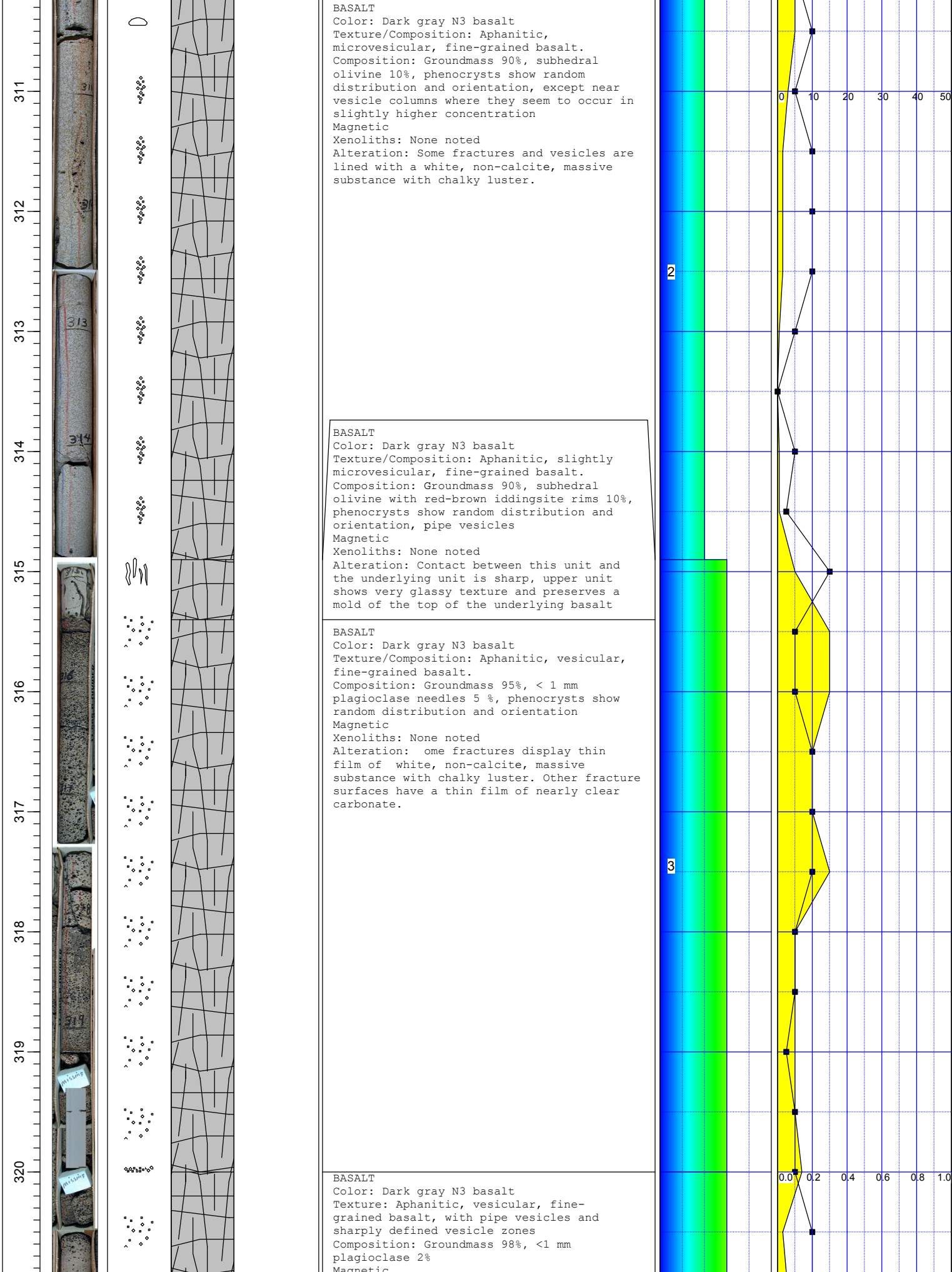


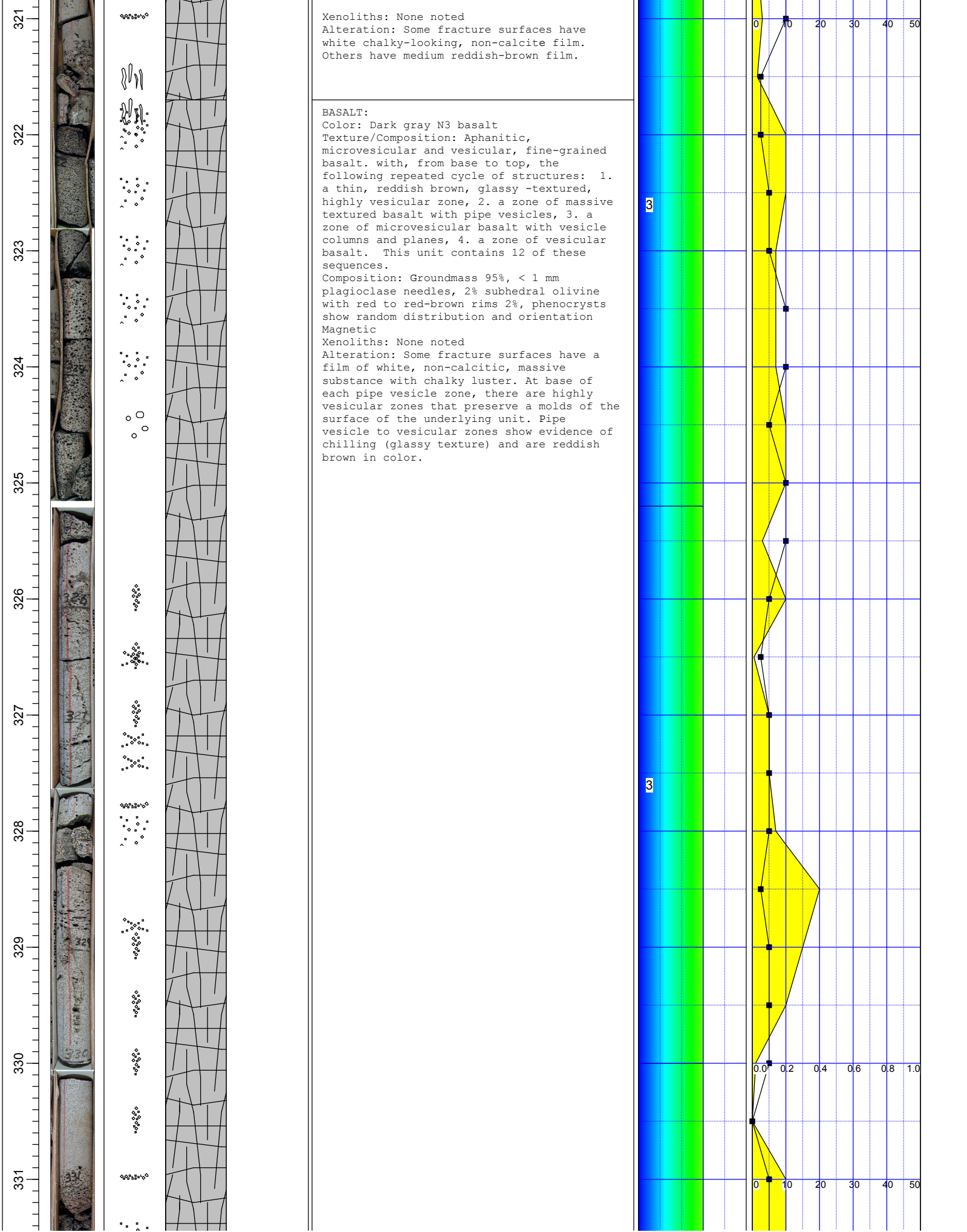
Color: Dark gray N3 basalt
Texture/Composition: Aphanitic, fine-grained groundmass 80%, <1 mm plagioclase laths 10%, subhedral olivine 20%
phenocrysts show random distribution and orientation
Magnetic
Xenoliths: None noted
Alteration: Some fractures and vesicles are lined with a white, non-calcitic, massive substance with chalky luster. Other fractures and vesicles are lined with light brown 5 YR 5/6 silt and clay which contains no free carbonate

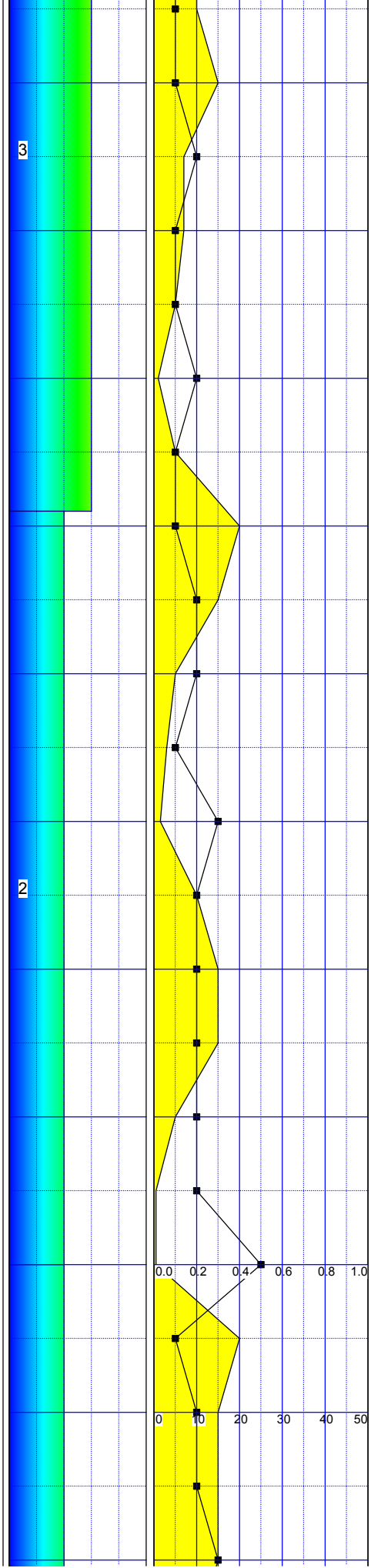
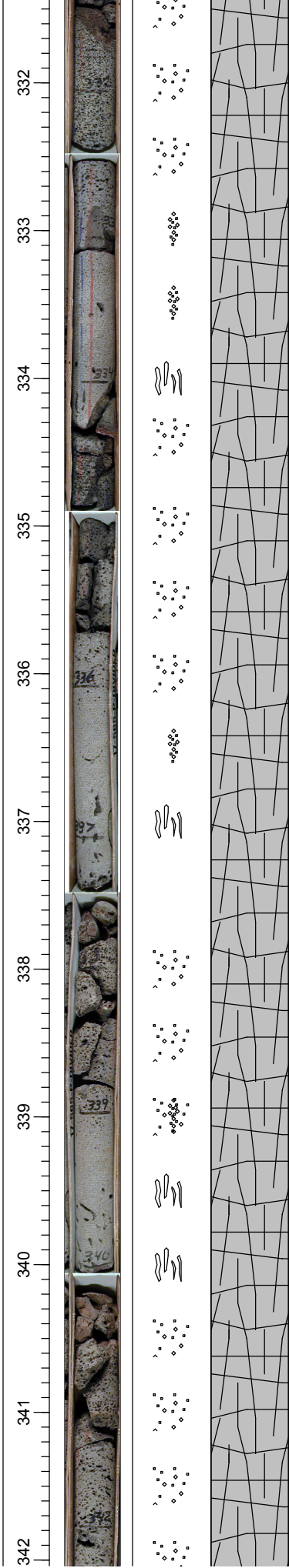
SILT AND CLAY
Texture: Silt and clay, blocky, USCS classification CL
Color: Moderate orange 5 YR 8/4 silt and clay soil
Consistence: Firm, blocky peds
Free carbonates: No
Rocks: No
Roots or fossils: Open tubules and tubules filled with white non-calcite substance-may indicate soil formation and plant growth

BASALT
Color: Dark gray N3 basalt
Texture/Composition: Aphanitic, vesicular fine-grained groundmass 90%, <1 mm plagioclase laths 7%, subhedral olivine 3%, phenocrysts show random distribution and orientation
Magnetic
Xenoliths: None noted
Alteration: Some fractures and vesicles are lined with a white, non-calcite, massive or botryoidal substance with chalky luster. Other fractures and vesicles are lined with light brown 5 YR 5/6 silt and clay which contains no free carbonate.

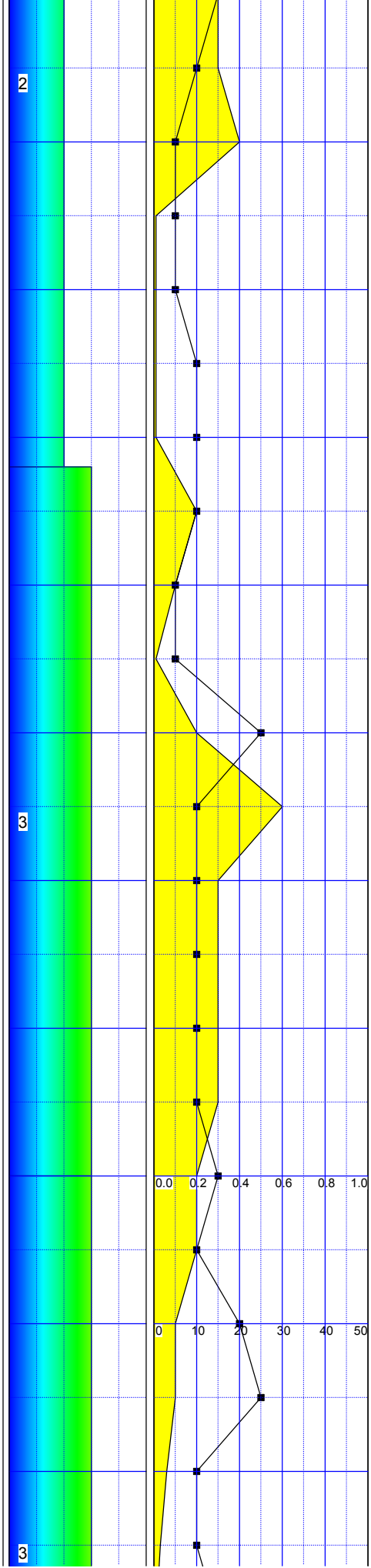
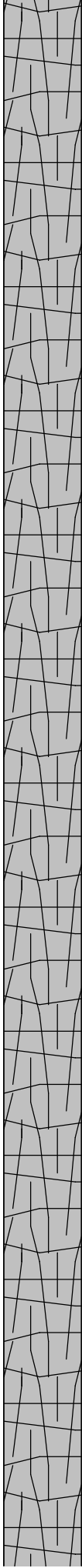


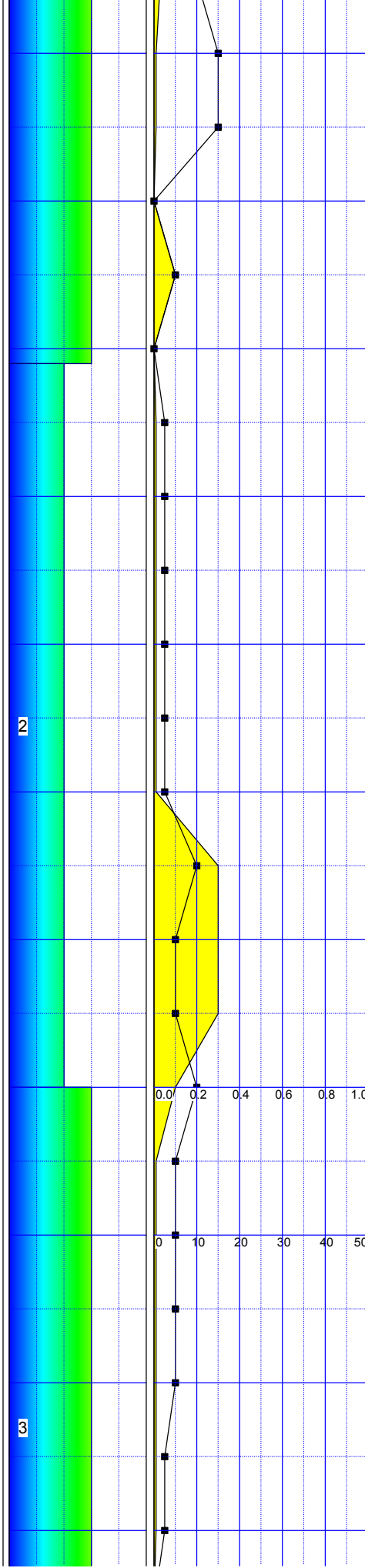
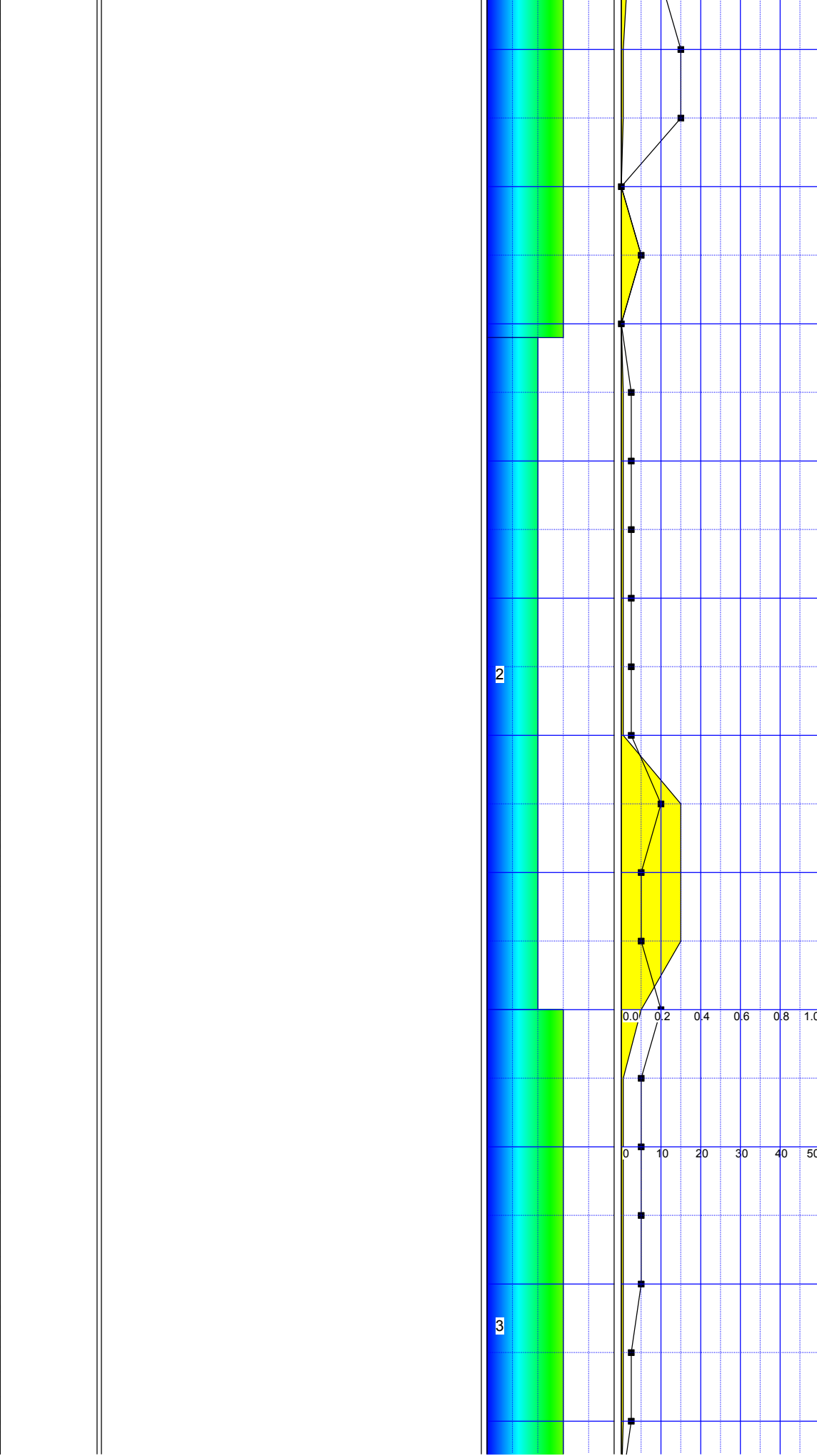
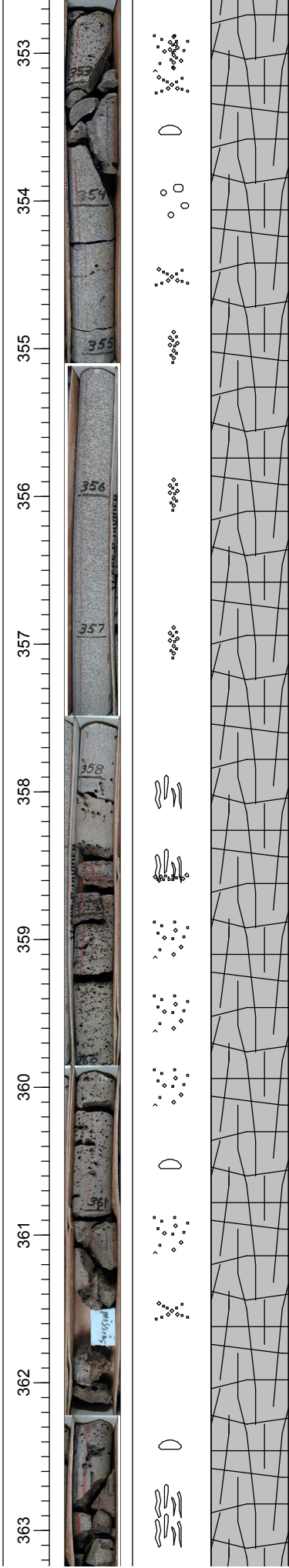


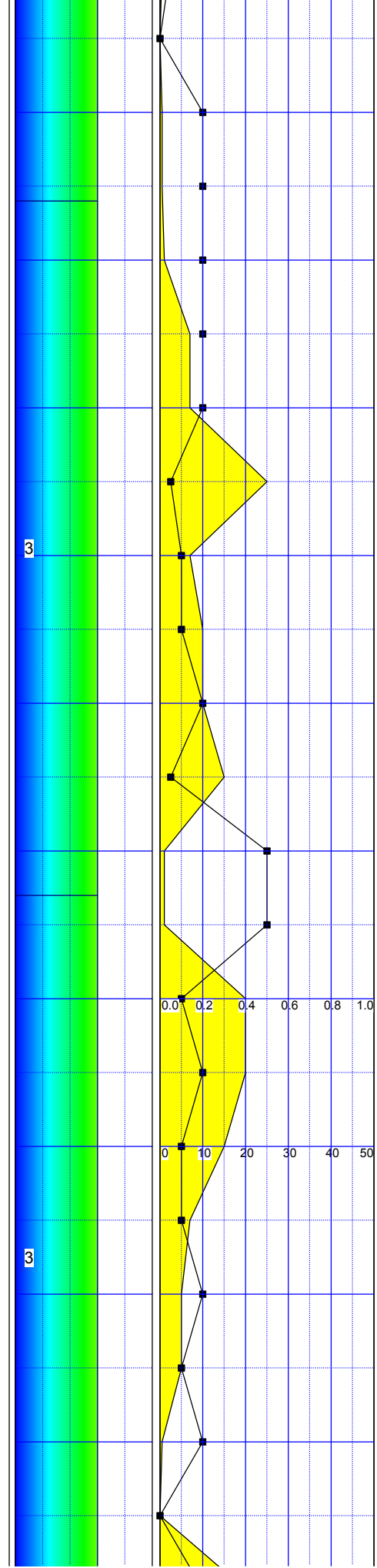
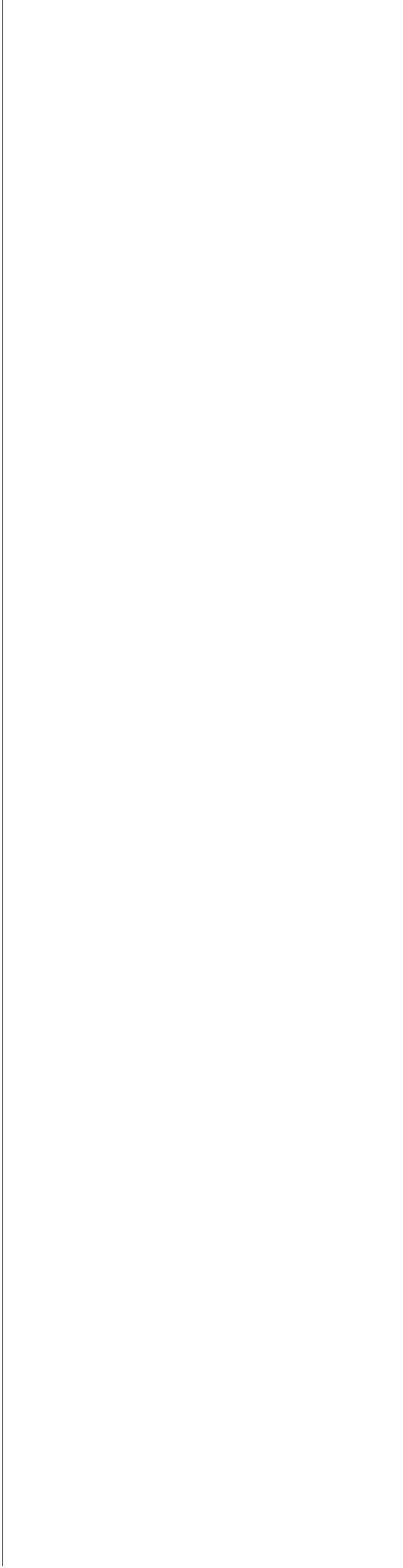
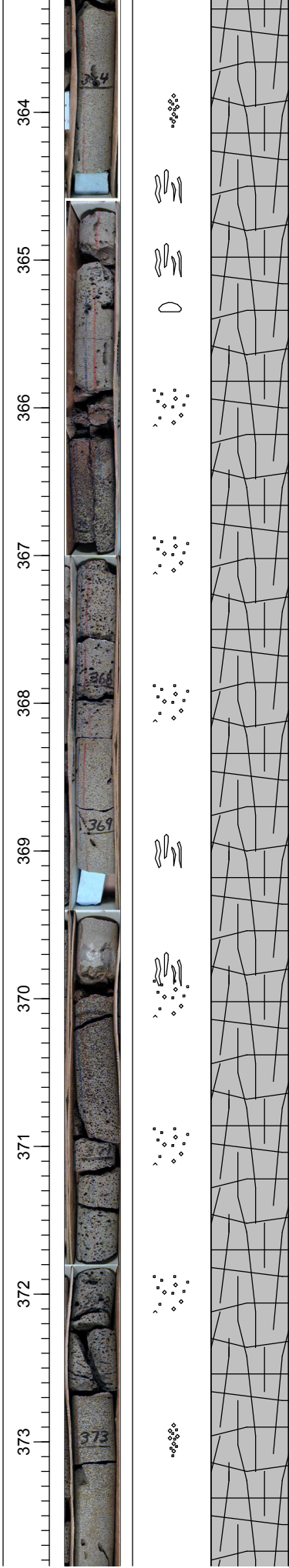


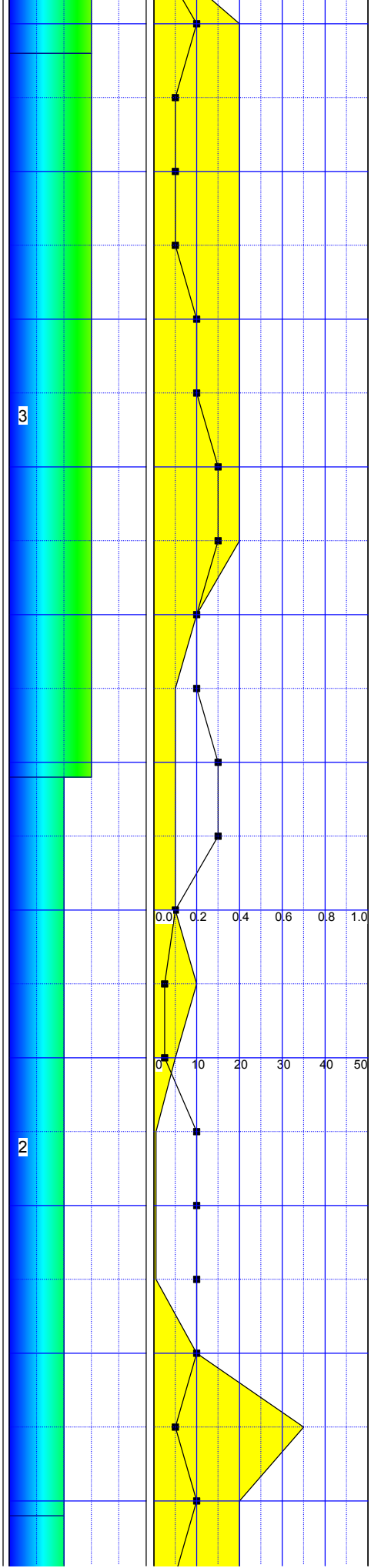
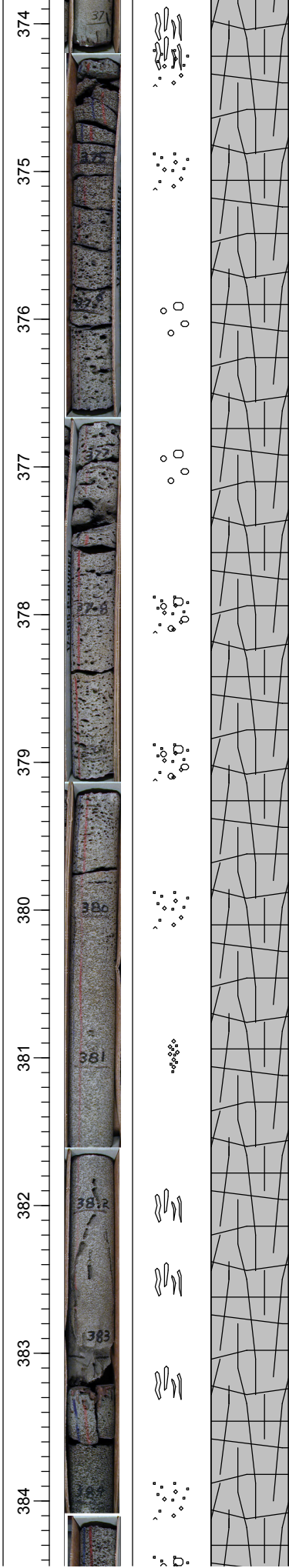


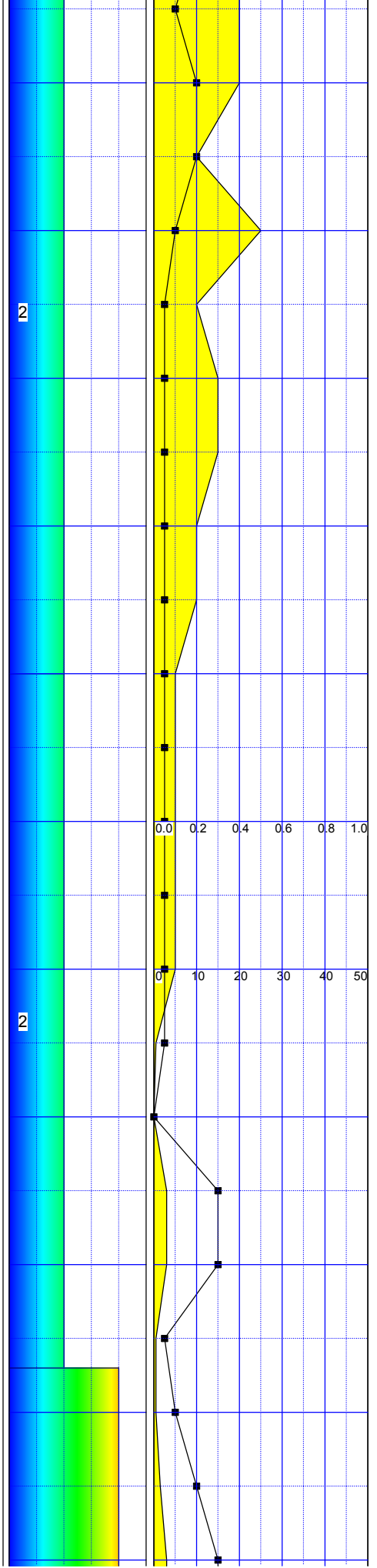
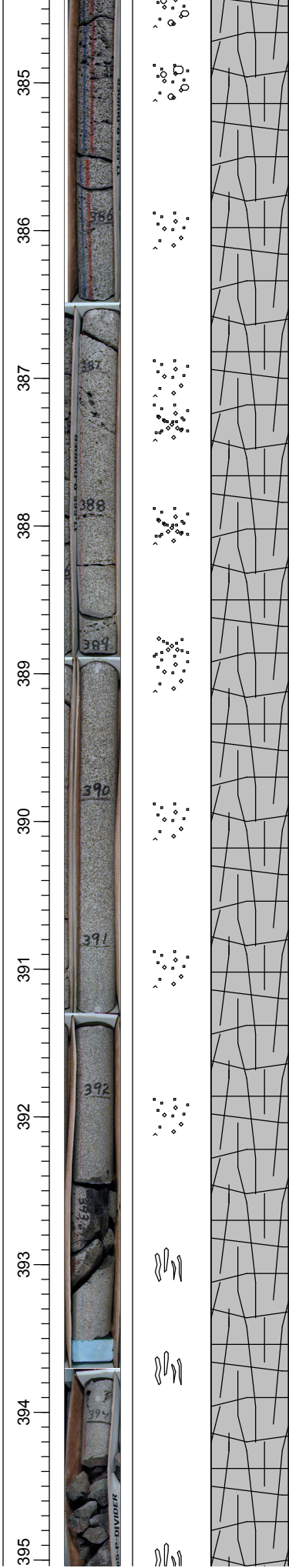
352 351 350 349 348 347 346 345 344 343 342



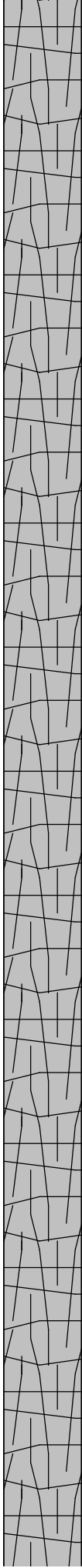




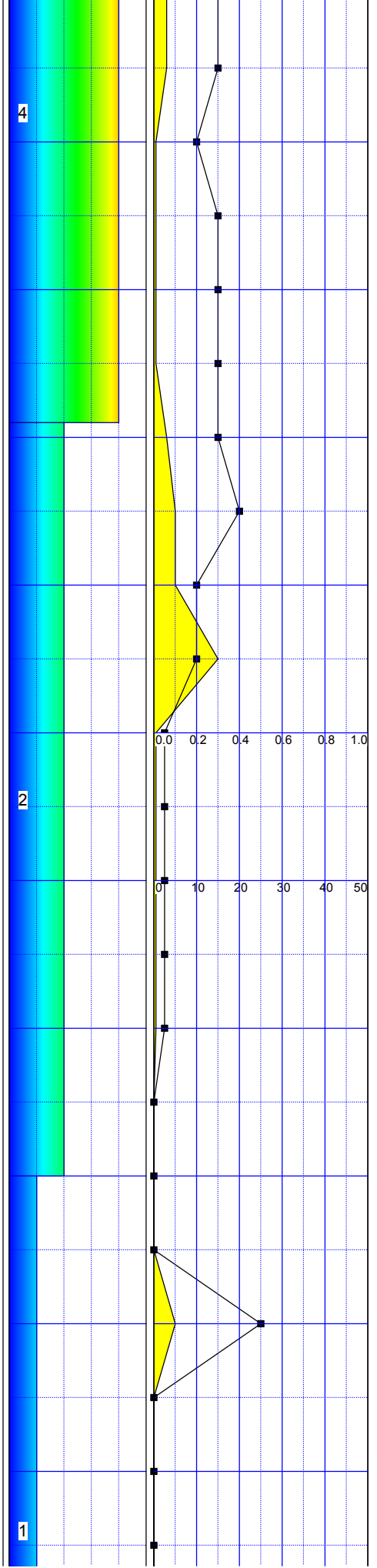


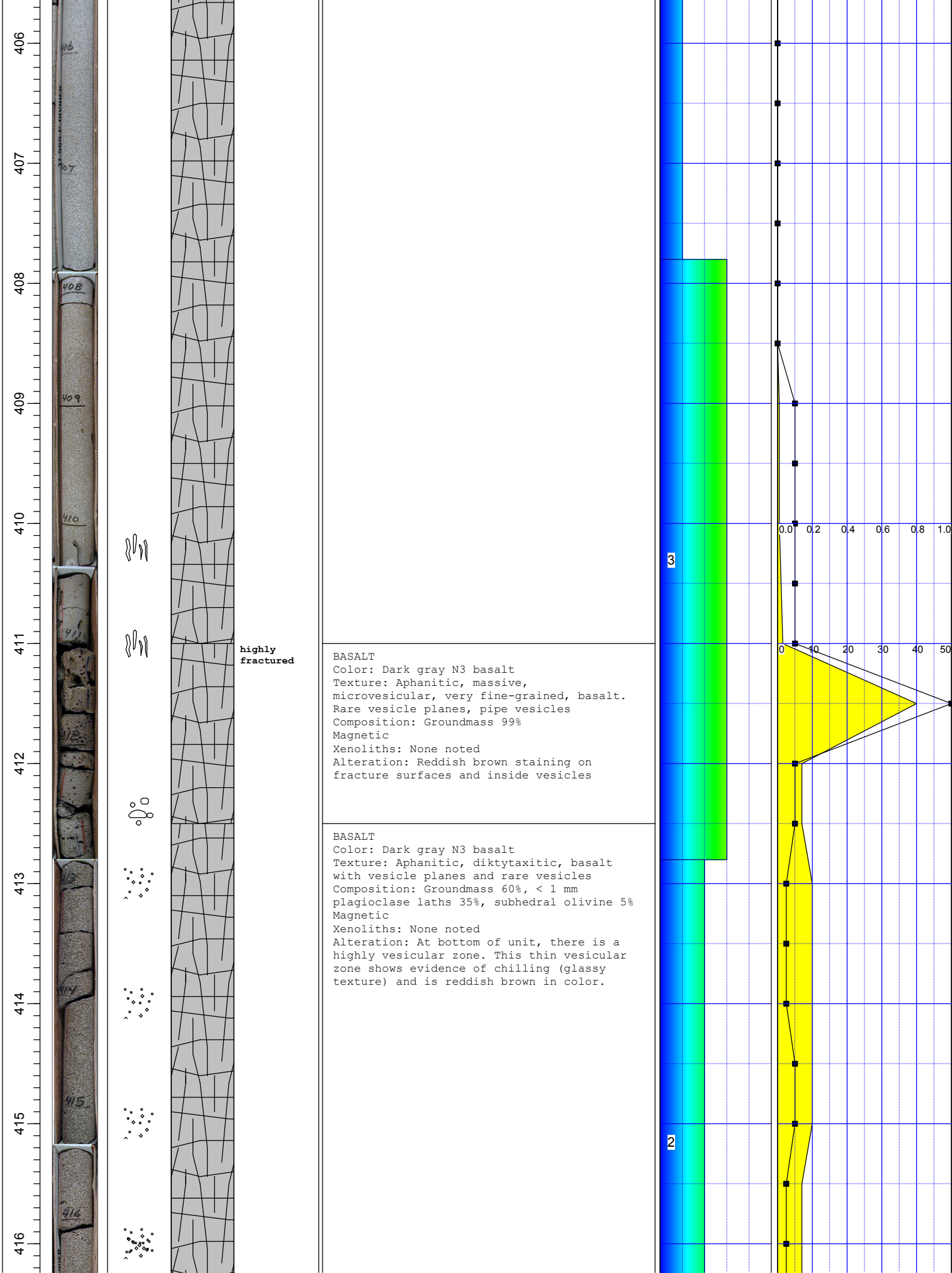


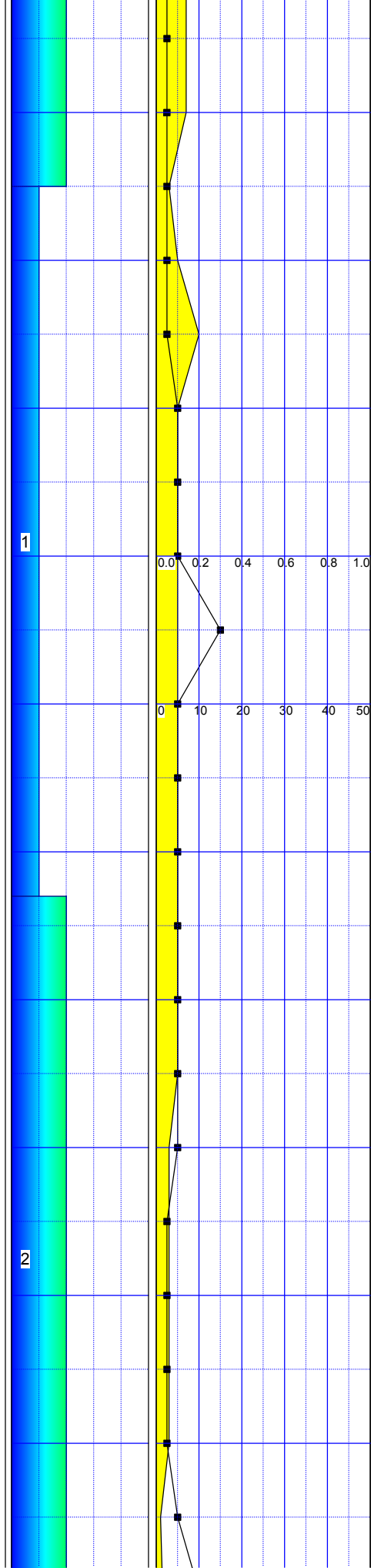
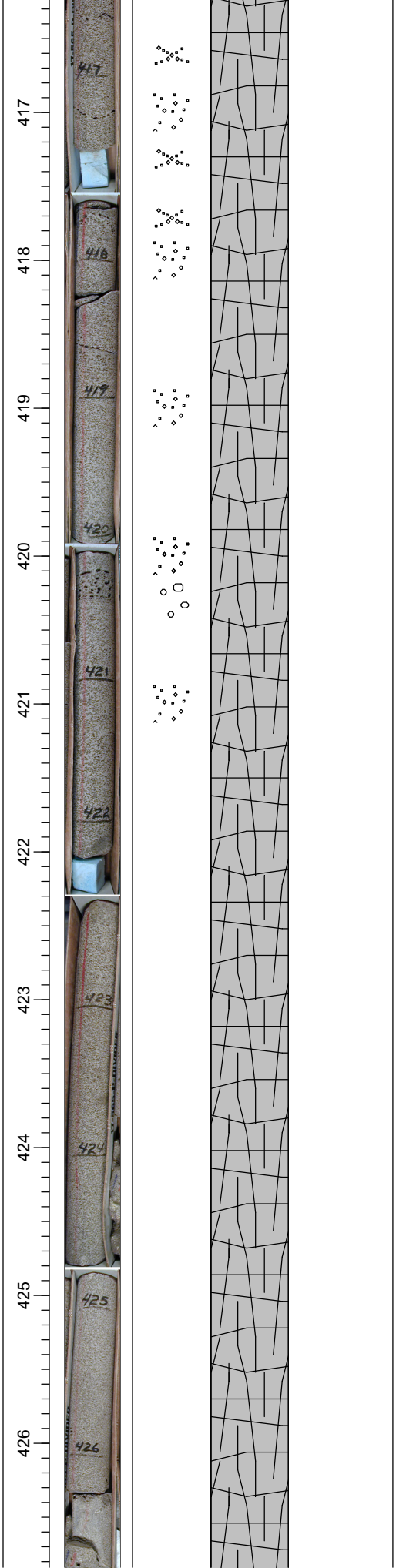
395
396
397
398
399
400
401
402
403
404
405

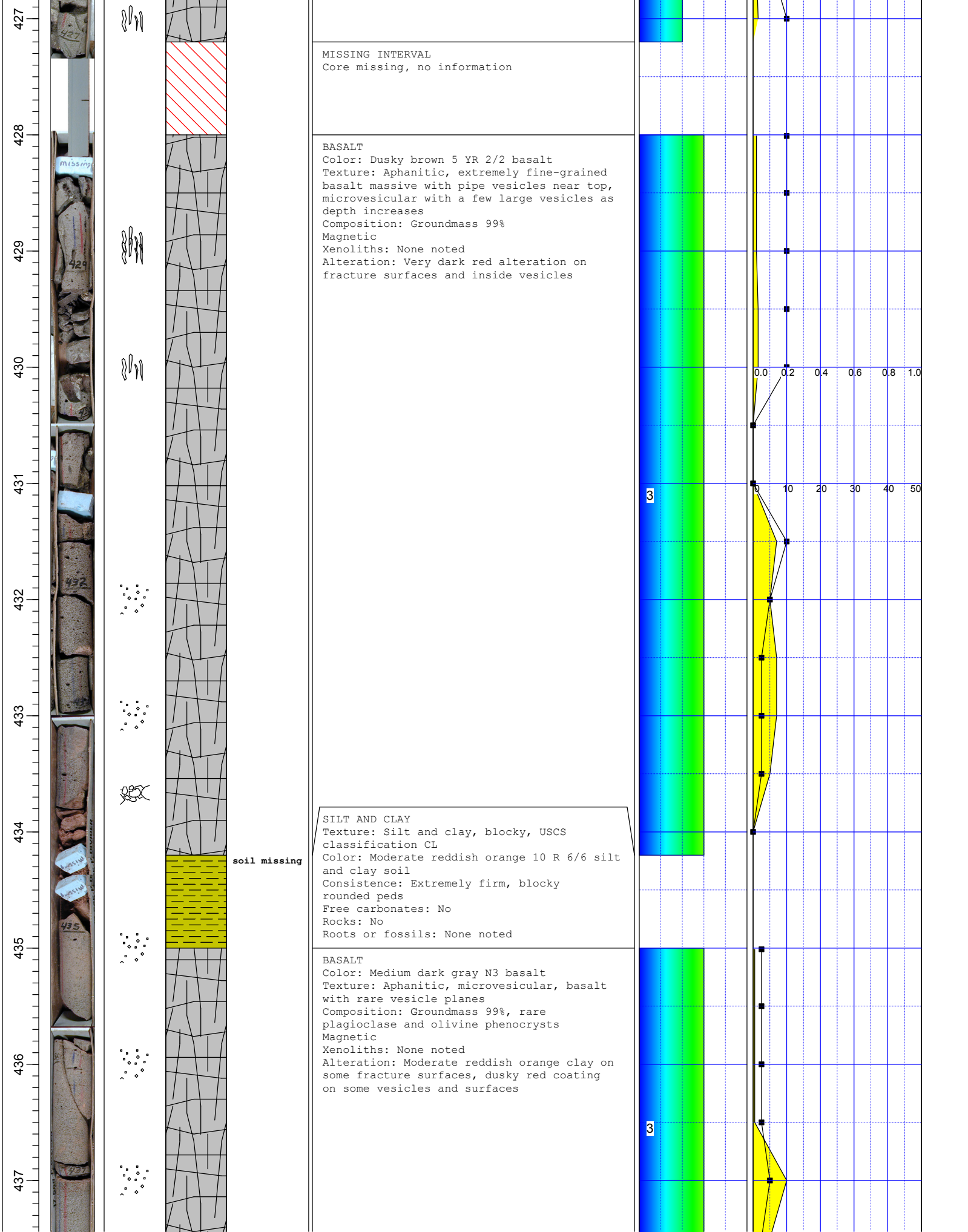


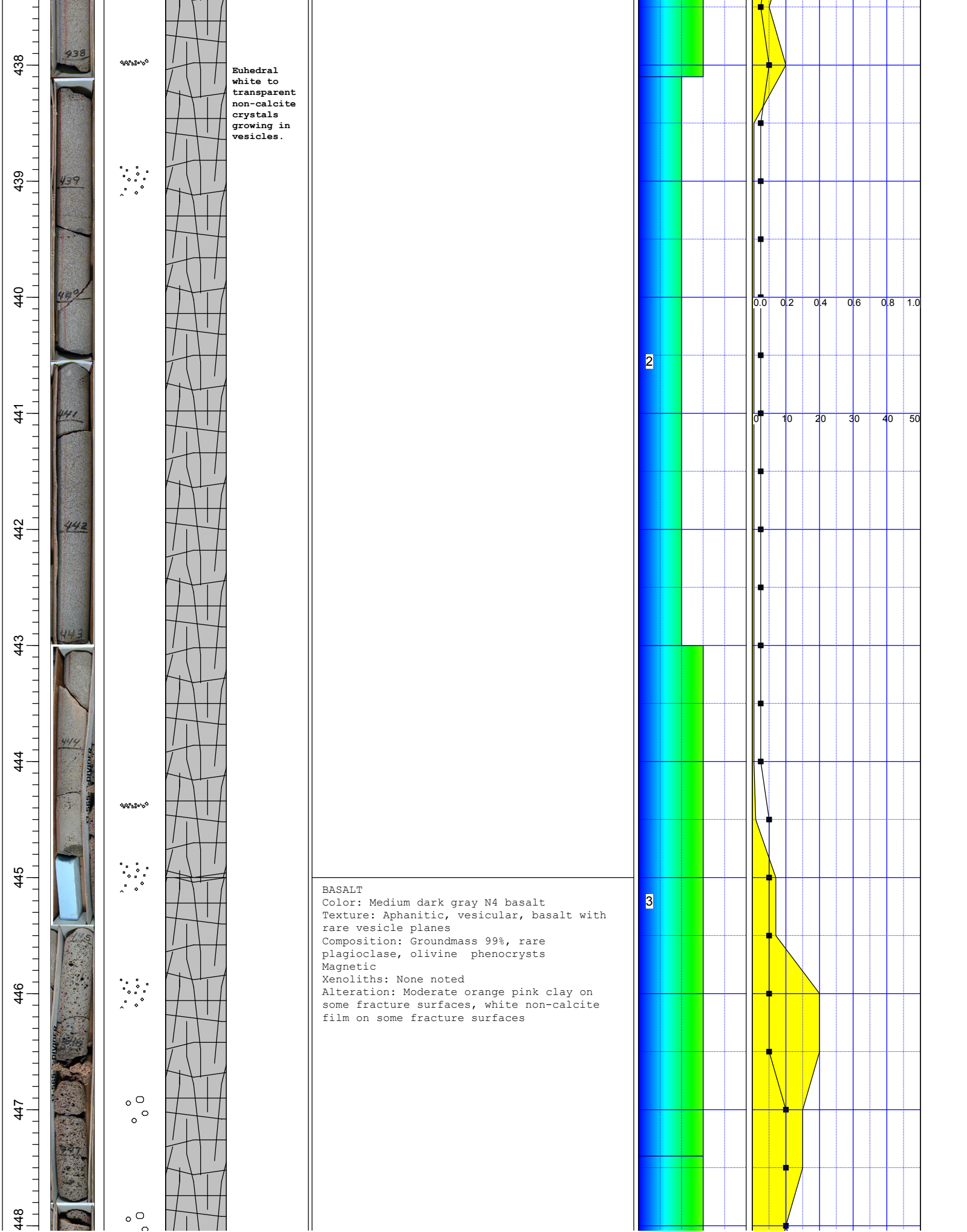
euhedral
plagioclase
and pyroxene
crystals
line vesicle
plane

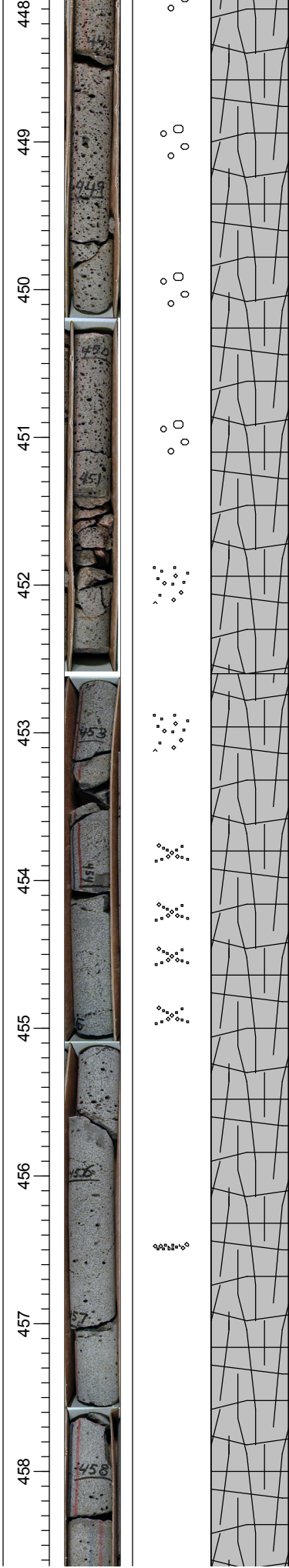




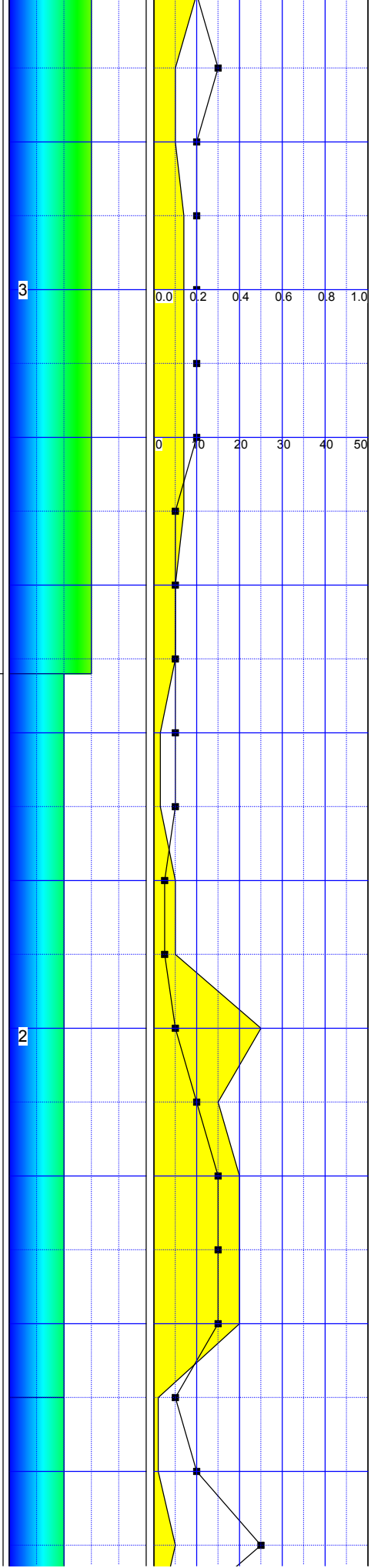


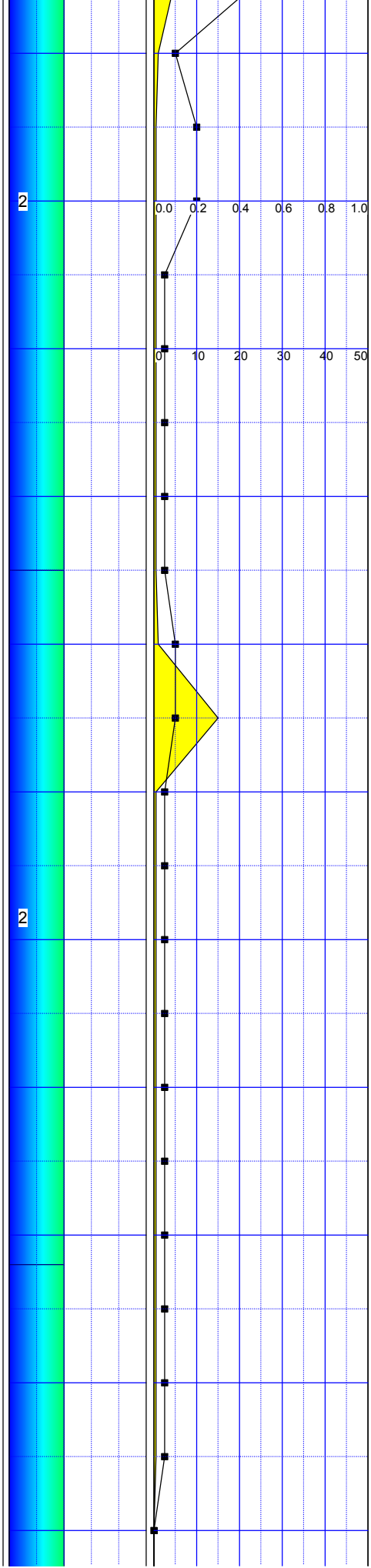
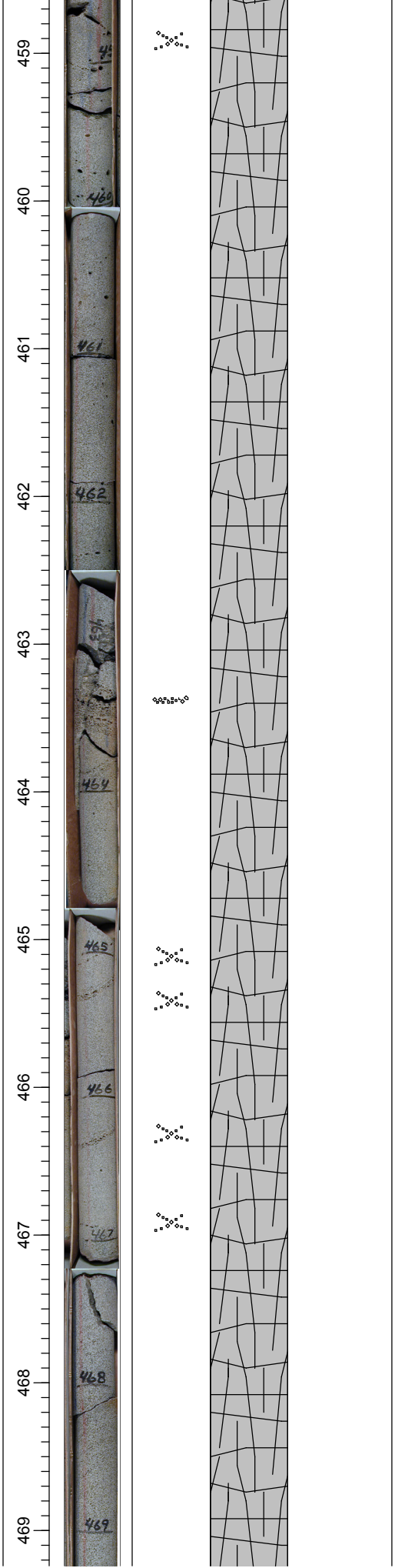


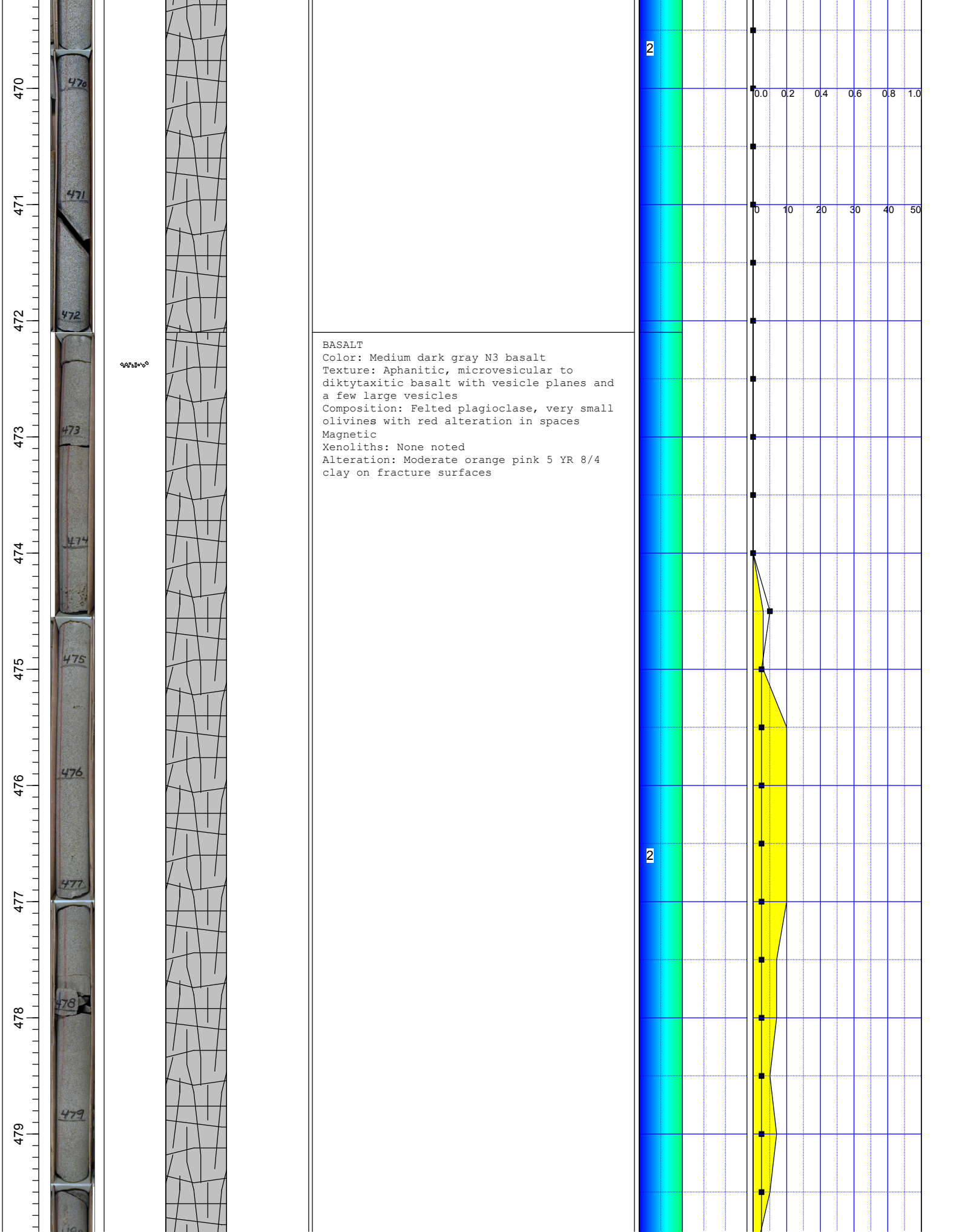


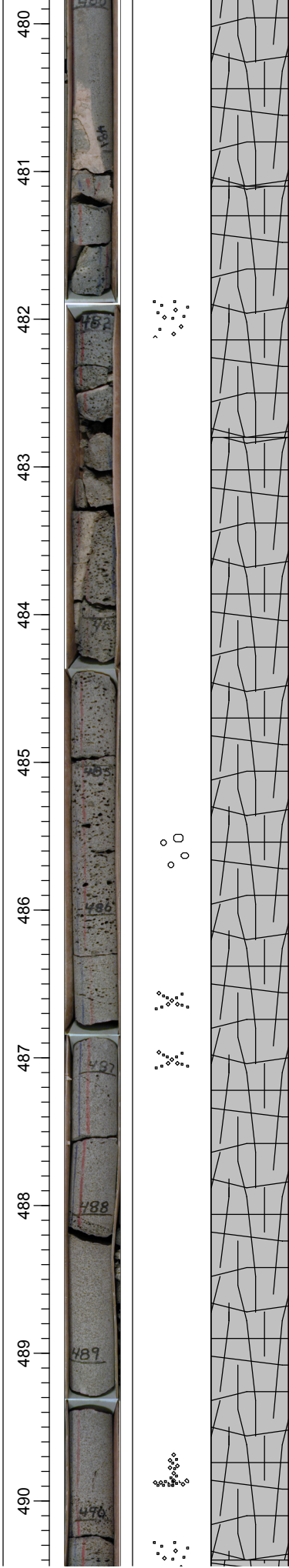


BASALT
Color: Medium dark gray N3 basalt
Texture: Aphanitic, microvesicular to diktytaxitic basalt with vesicle planes and a few large vesicles
Composition: Felted plagioclase, very small olivine with red alteration in spaces
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish orange clay on some fracture surfaces, white non-calcite coating on some vesicles and surfaces





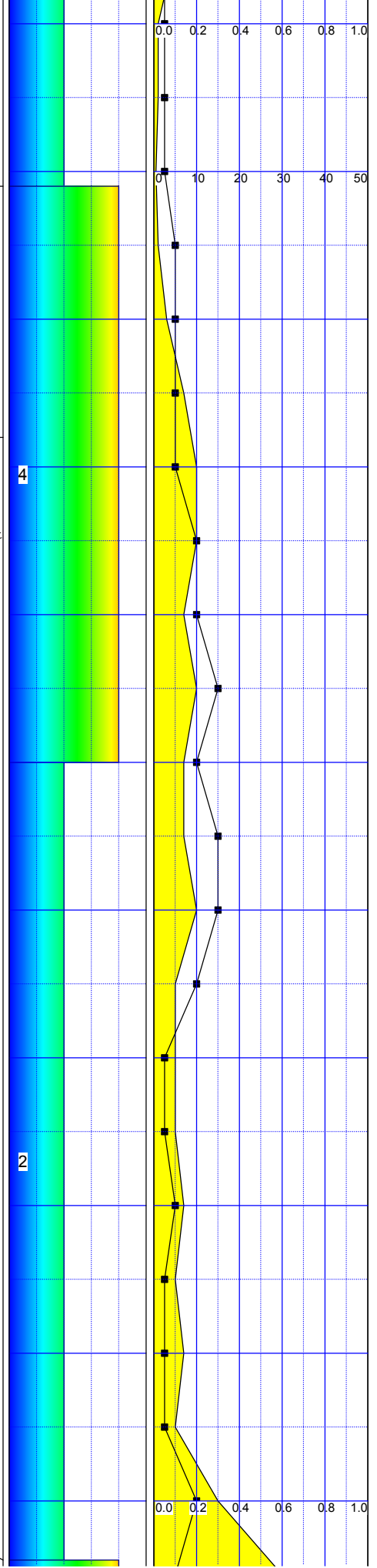


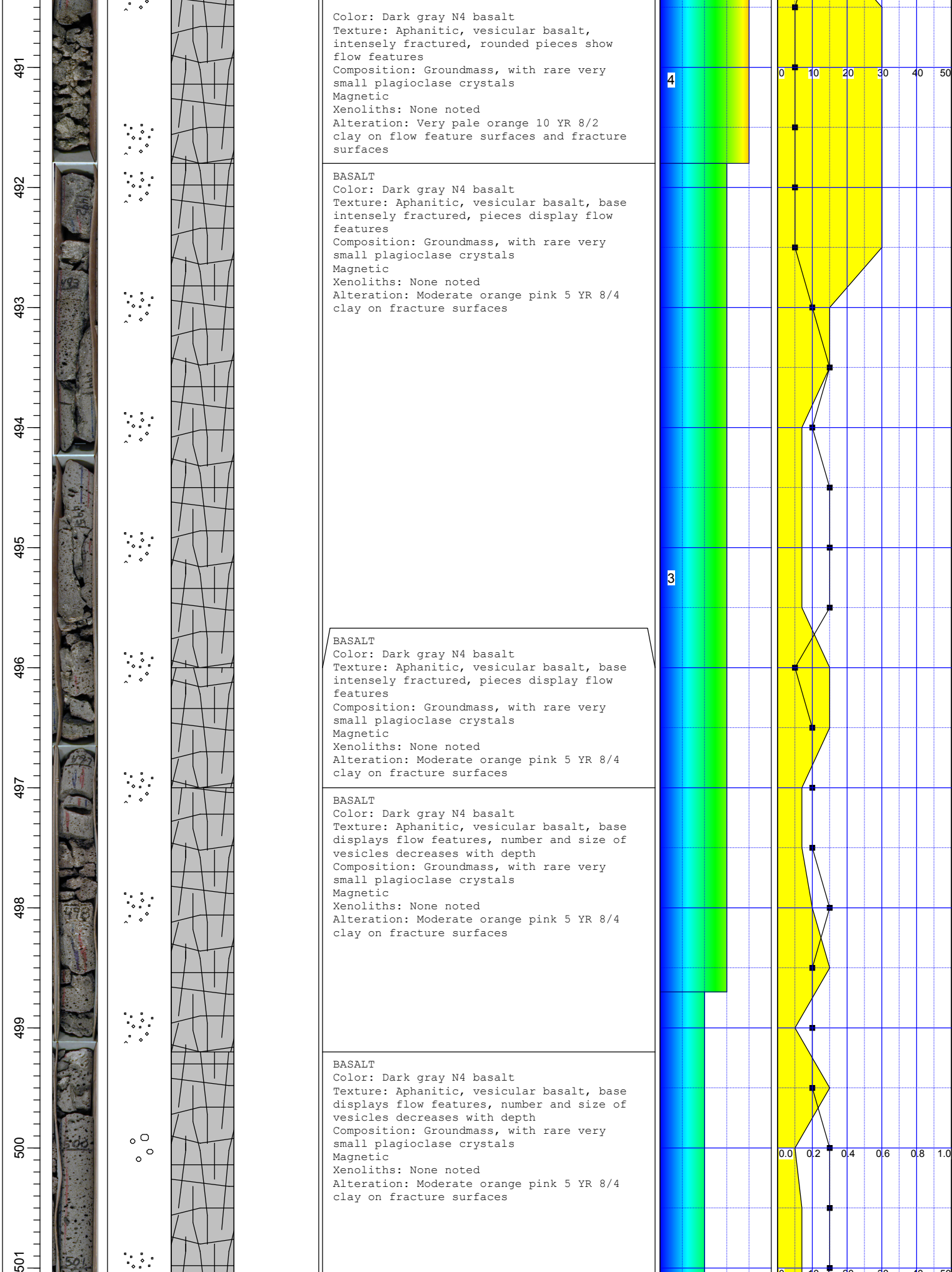


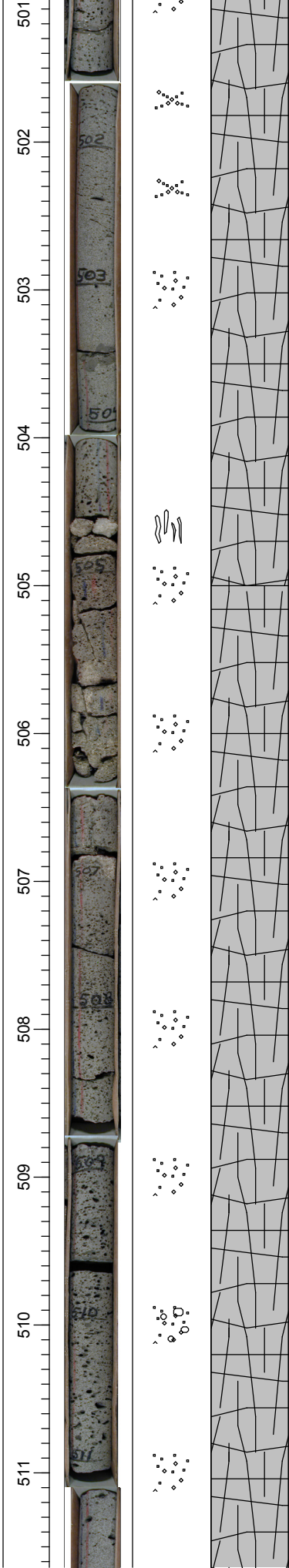
BASALT
Color: Dark gray N4 basalt
Texture: Aphanitic, vesicular basalt
Composition: Groundmass, with rare very small plagioclase crystals
Magnetic
Xenoliths: None noted
Alteration: Moderate orange pink 5 YR 8/4 clay on fracture surfaces

BASALT
Color: Dark gray N4 basalt
Texture: Aphanitic, vesicular basalt, vesicularity decreases with depth until 489.8 feet, then an abrupt increase, vesicle planes and one small vesicle sheet at 488 feet
Composition: Groundmass, with rare very small plagioclase crystals
Magnetic
Xenoliths: None noted
Alteration: Moderate orange pink 5 YR 8/4 clay on fracture surfaces

BASALT

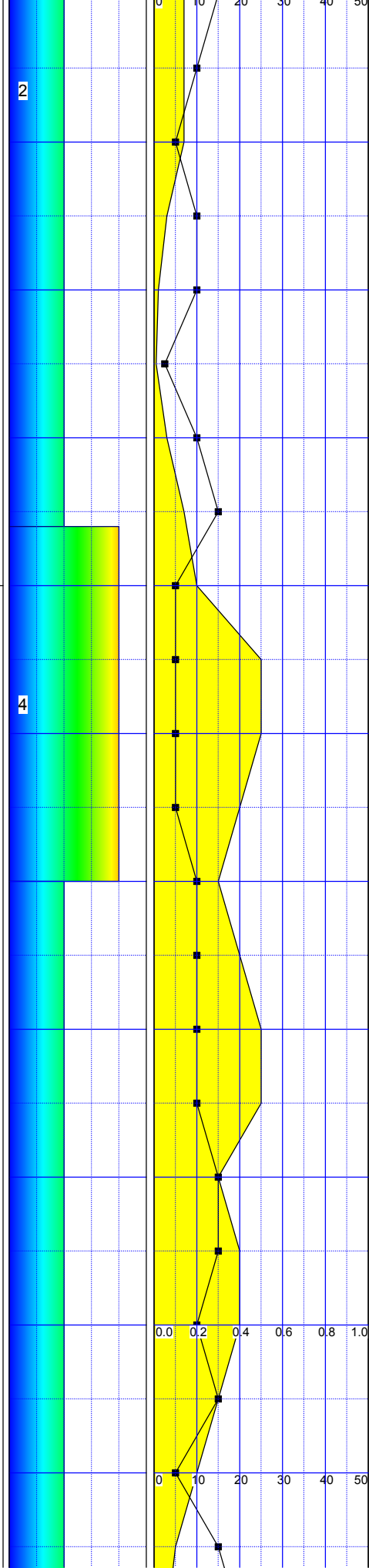


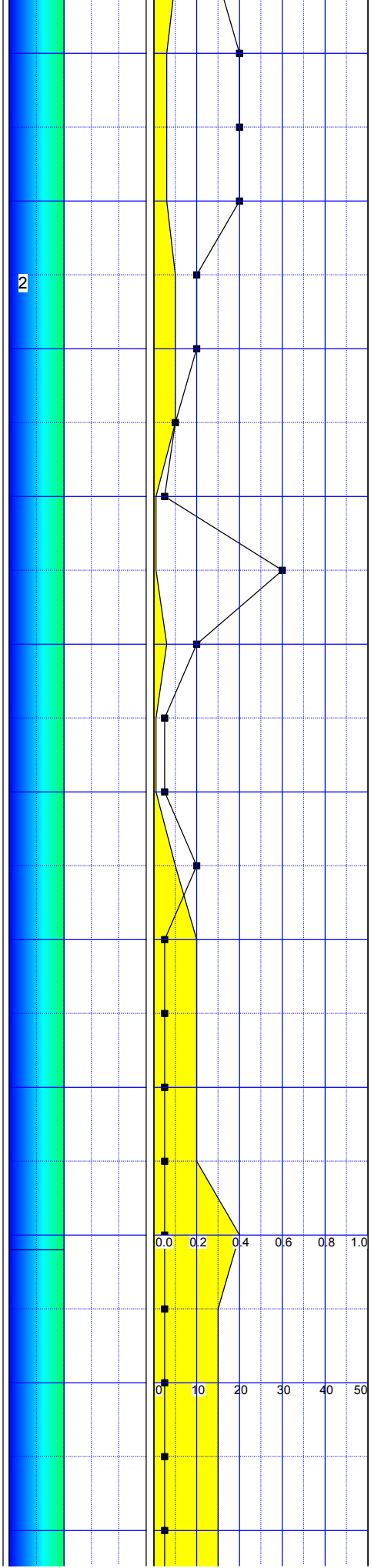
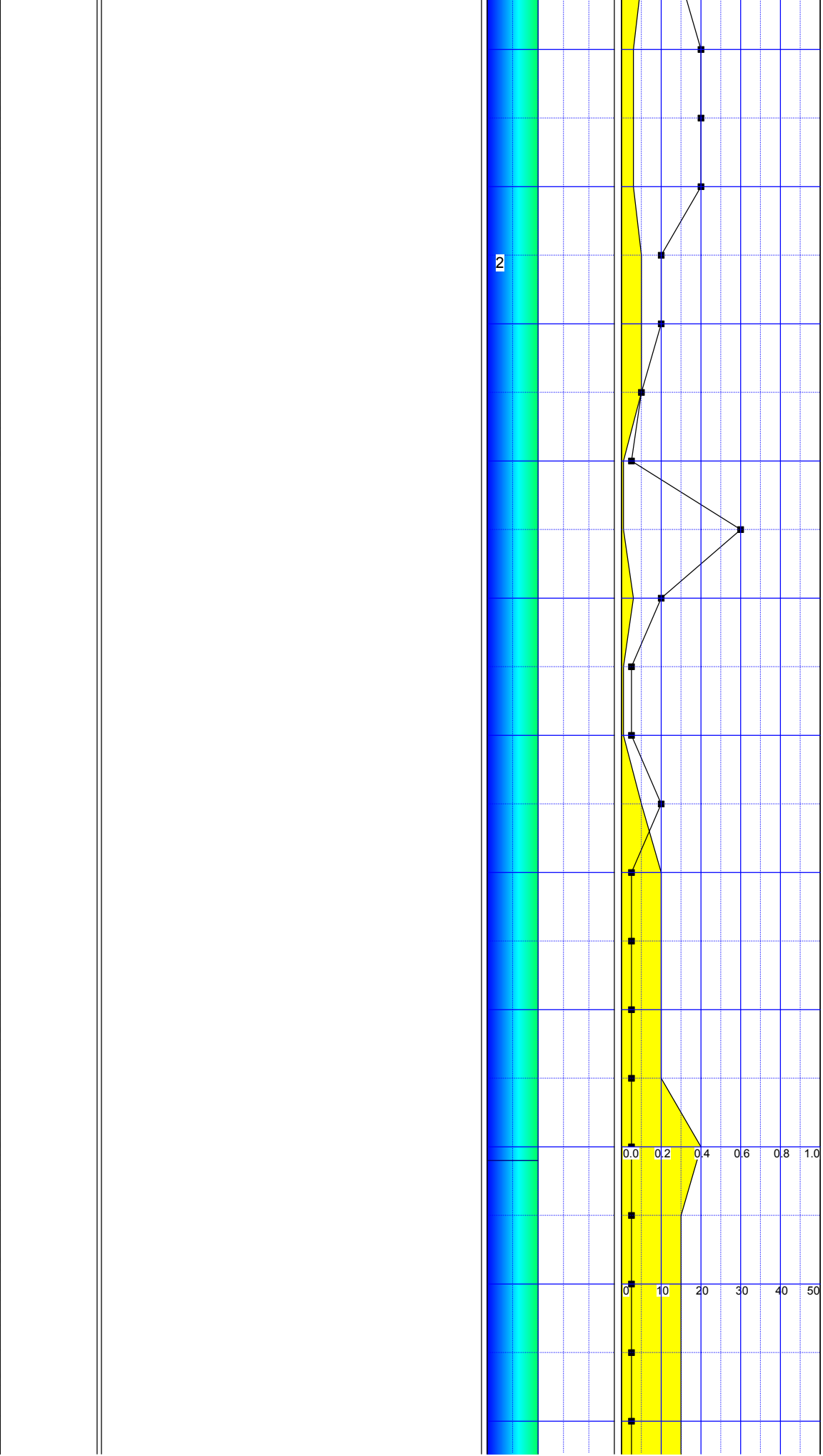
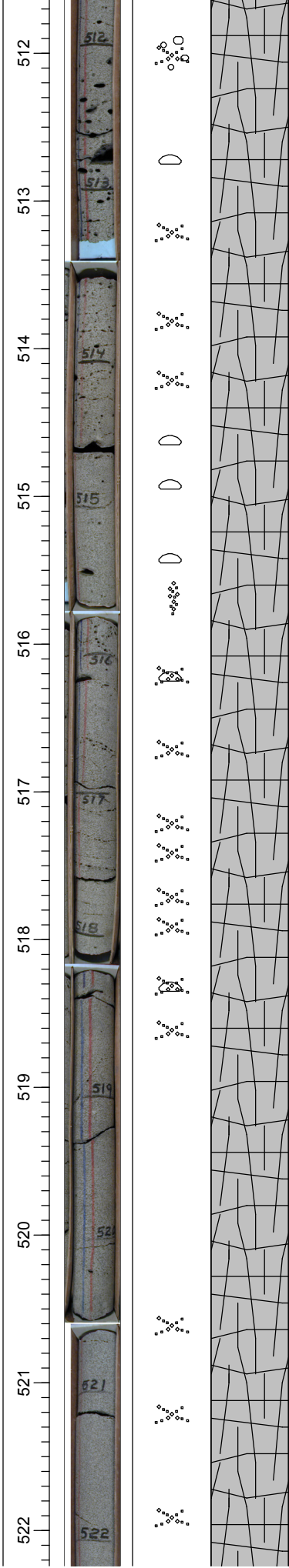


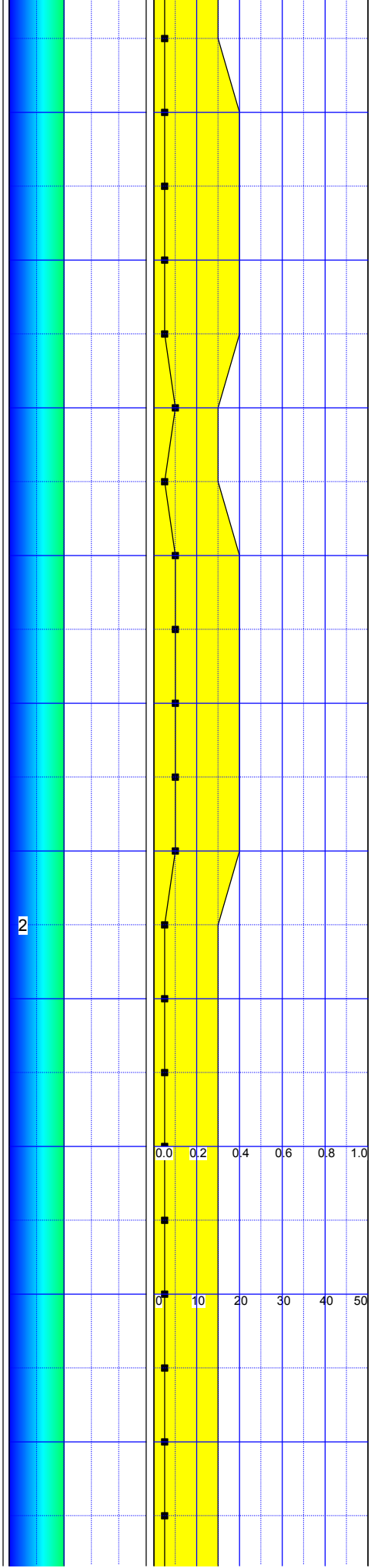
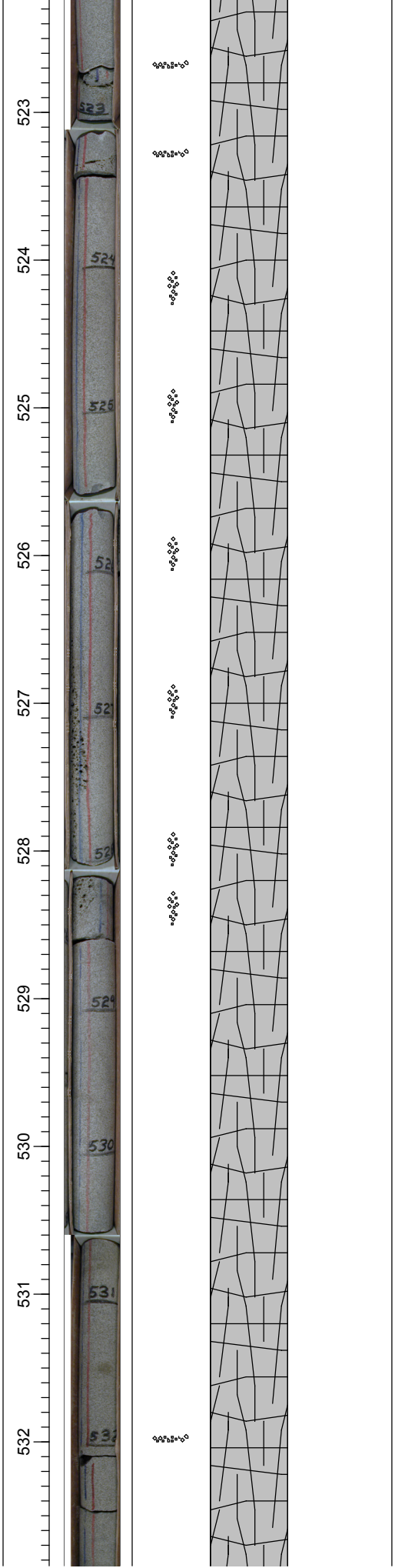


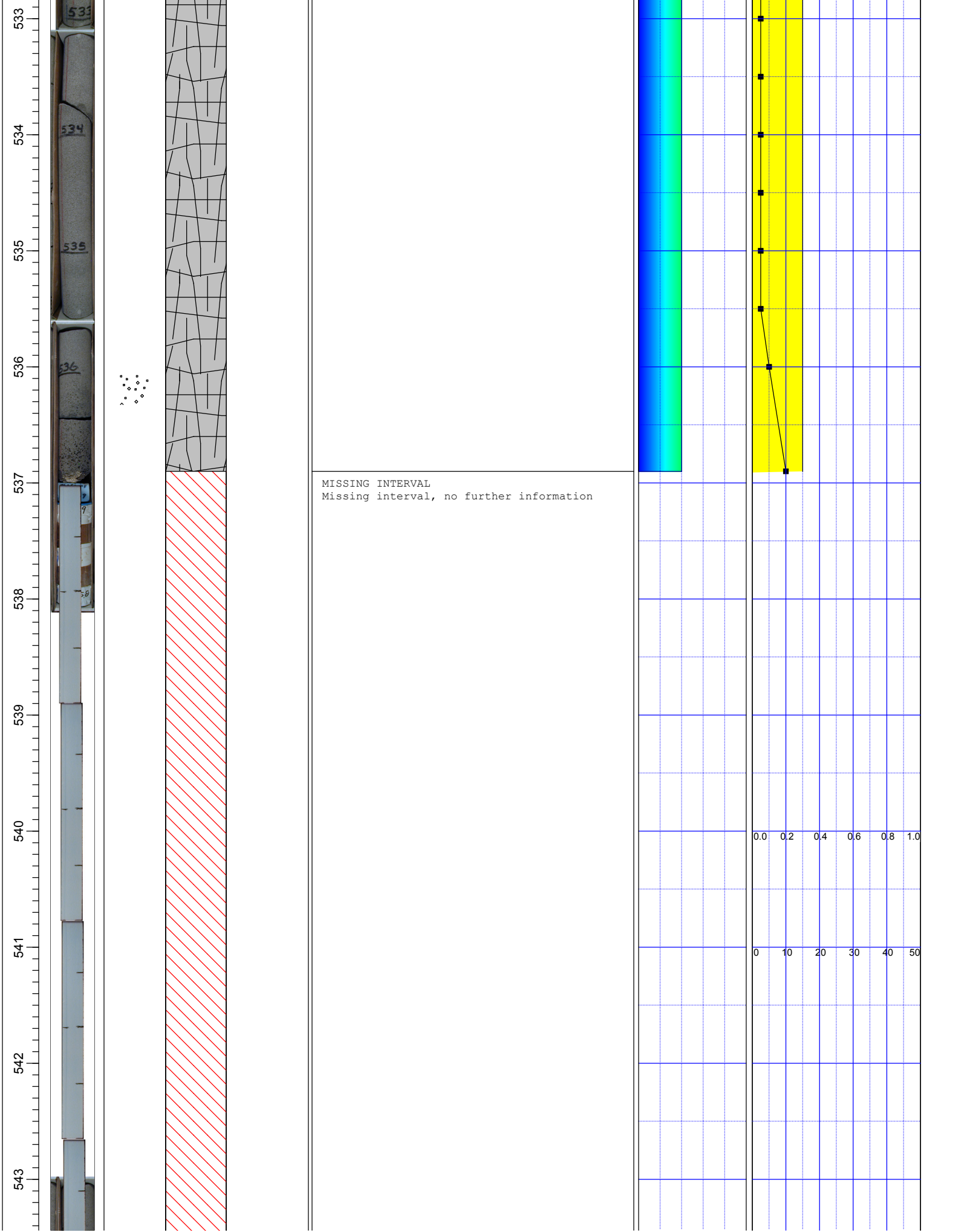
BASALT

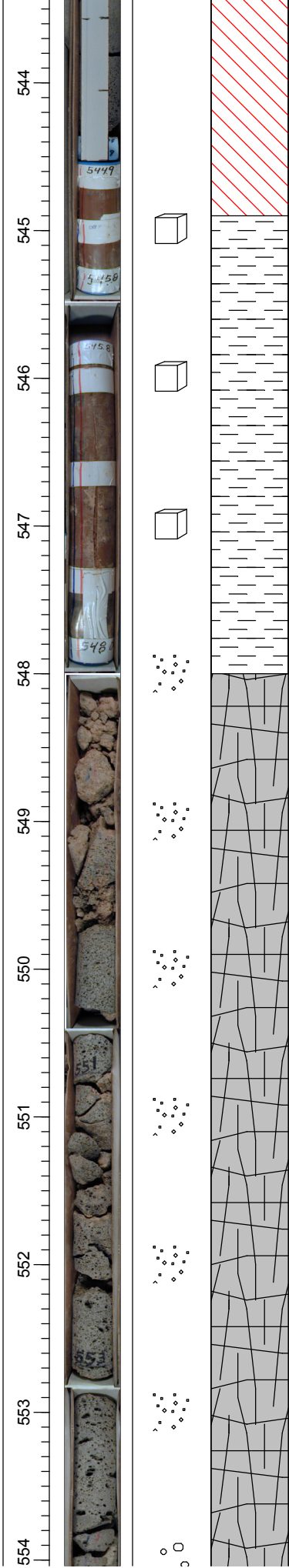
Color: Dark gray N4 basalt
Texture: Aphanitic, vesicular basalt, number of vesicles decreases with depth, size of vesicles increases with depth to 514.6 feet, then texture is massive with vesicle columns and planes, 536 to 536.0 feet is almost scoria and shows flow features at base
Composition: Groundmass, with rare very small plagioclase crystals, number of crystals increases with depth to 536 feet where no crystals are visible with hand lens
Magnetic
Xenoliths: None noted
Alteration: Moderate orange pink 5 YR 8/4 clay on fracture surfaces, calcite on inner surfaces of rare megavesicles





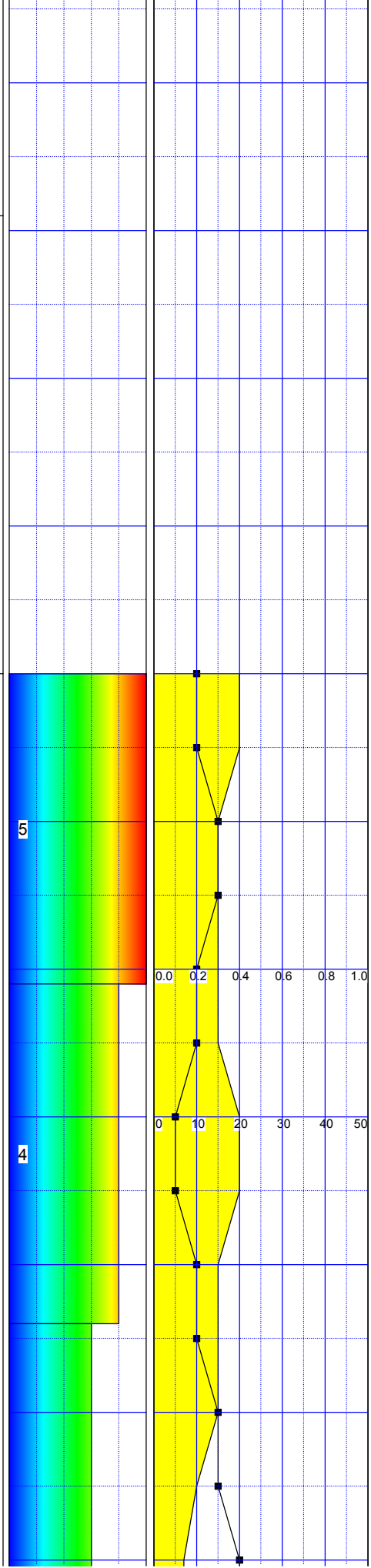


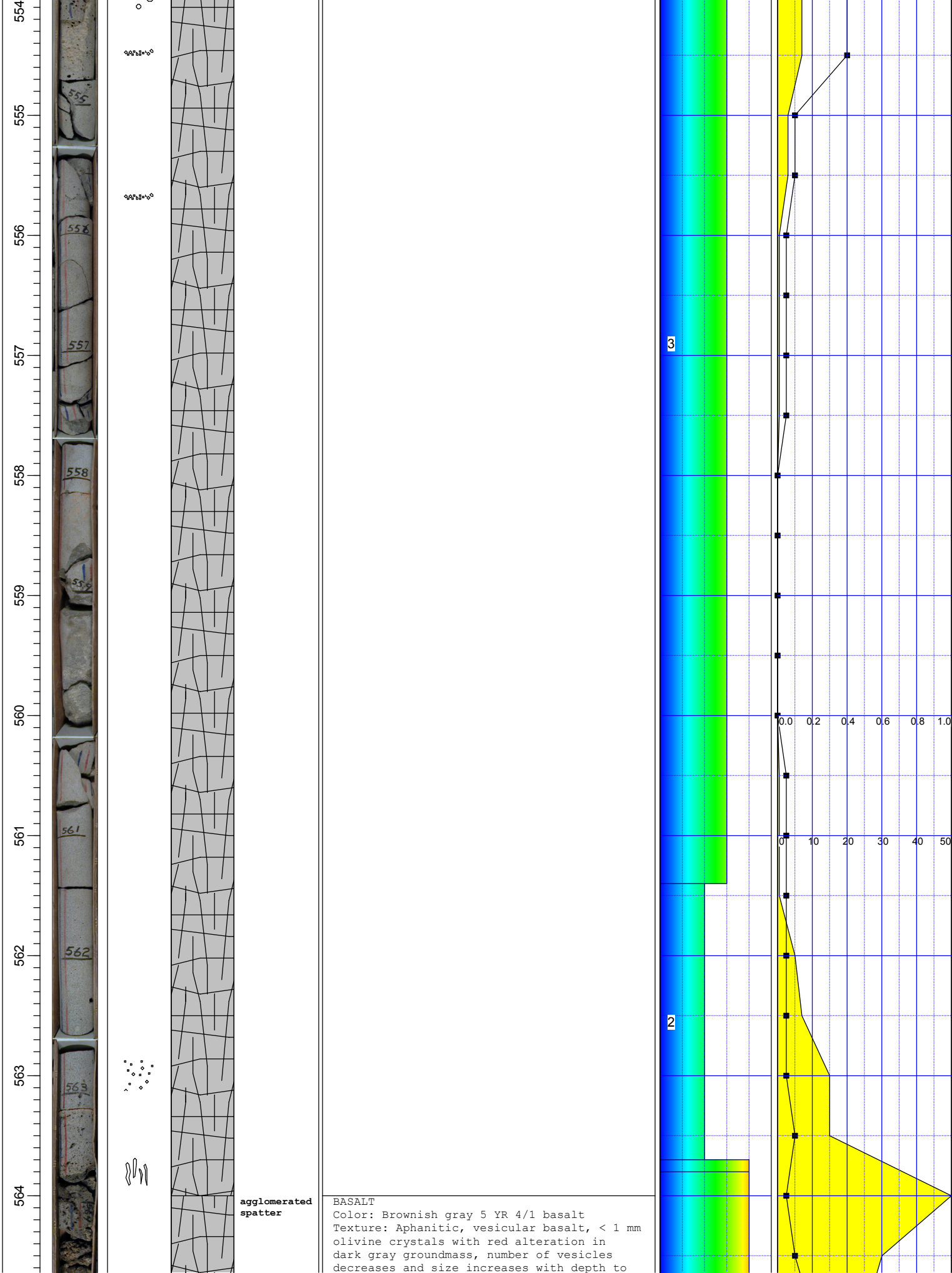


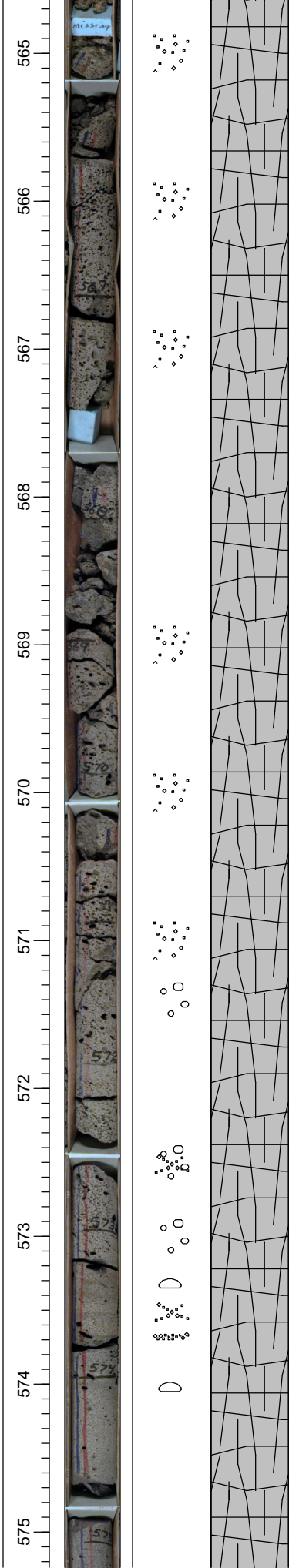


CLAY
Texture: Clay, blocky, USCS classification CL
Color: Moderate reddish brown 5 R 4/4 clay soil
Consistence: Firm, massive
Free carbonates: No
Rocks: No
Roots or fossils: None noted

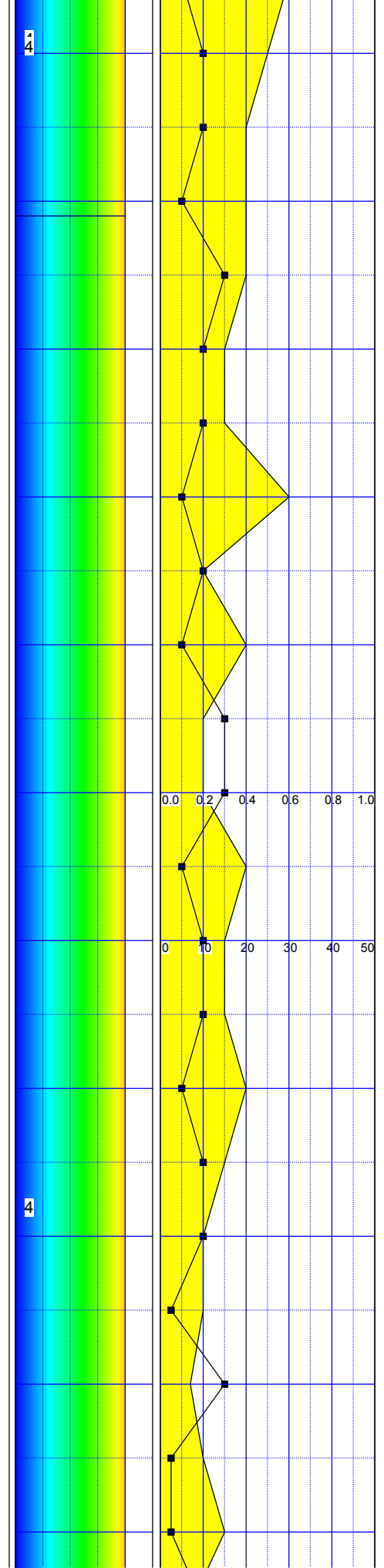
BASALT
Color: Dark gray N3 basalt
Texture: Aphanitic, vesicular basalt, < 1 mm olivine crystals in dark gray groundmass, number of vesicles decreases and size increases with depth to 554 feet, then texture becomes massive to 563 feet where number of vesicles increases abruptly, base is broken in small fragments and shows flow features
Composition: Groundmass, with rare small green olivine crystals
Magnetic
Xenoliths: None noted
Alteration: Moderate brown 5 YR 4/4 clay on fracture surfaces and fragments

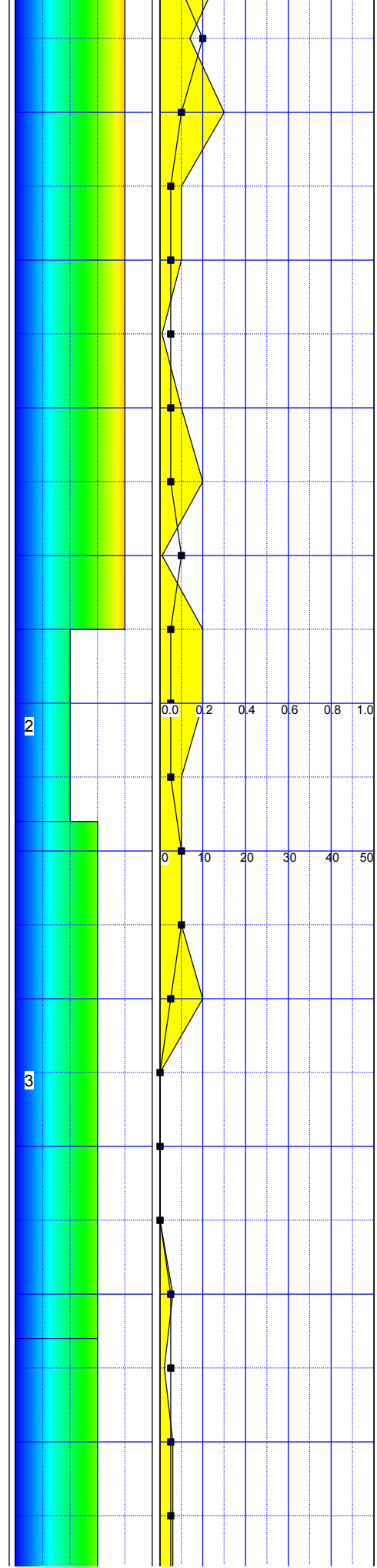
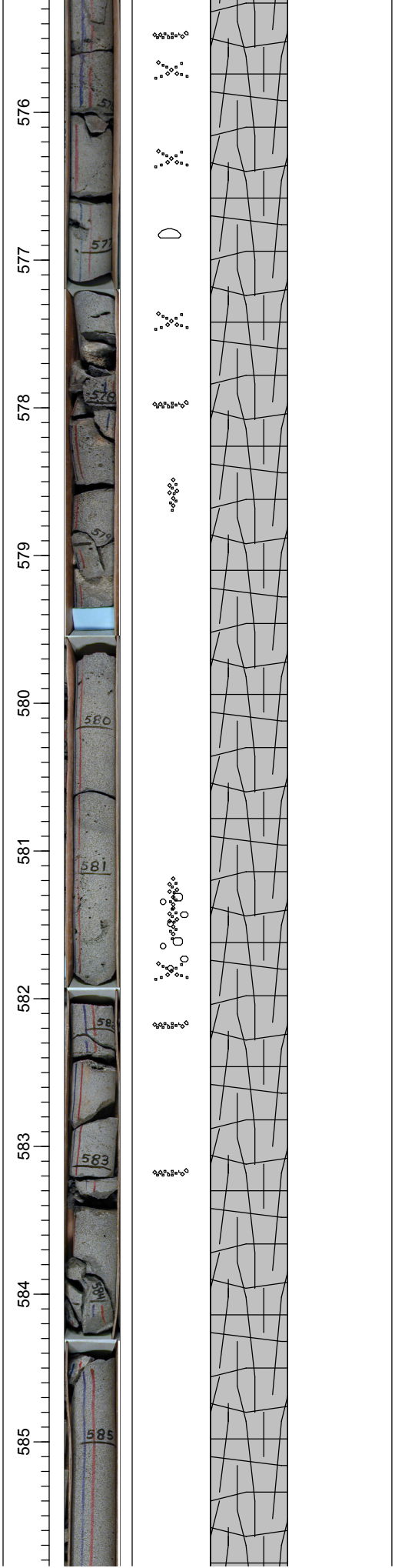


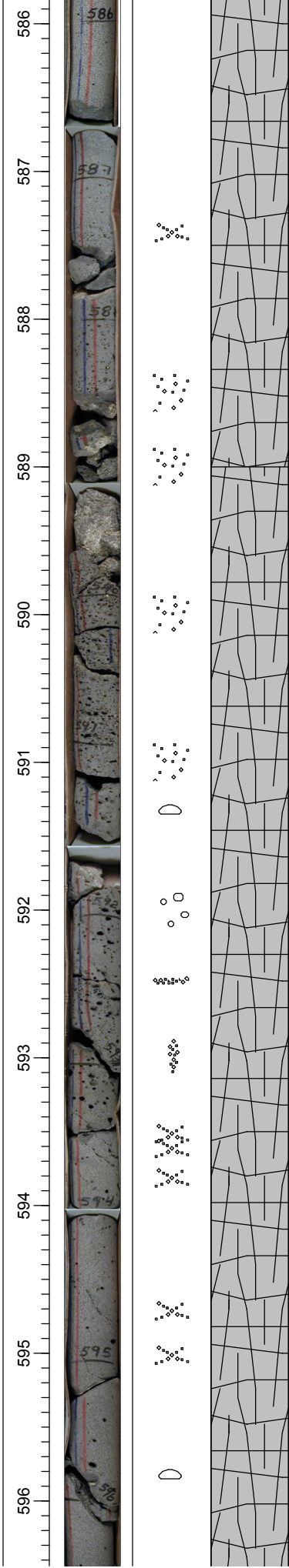




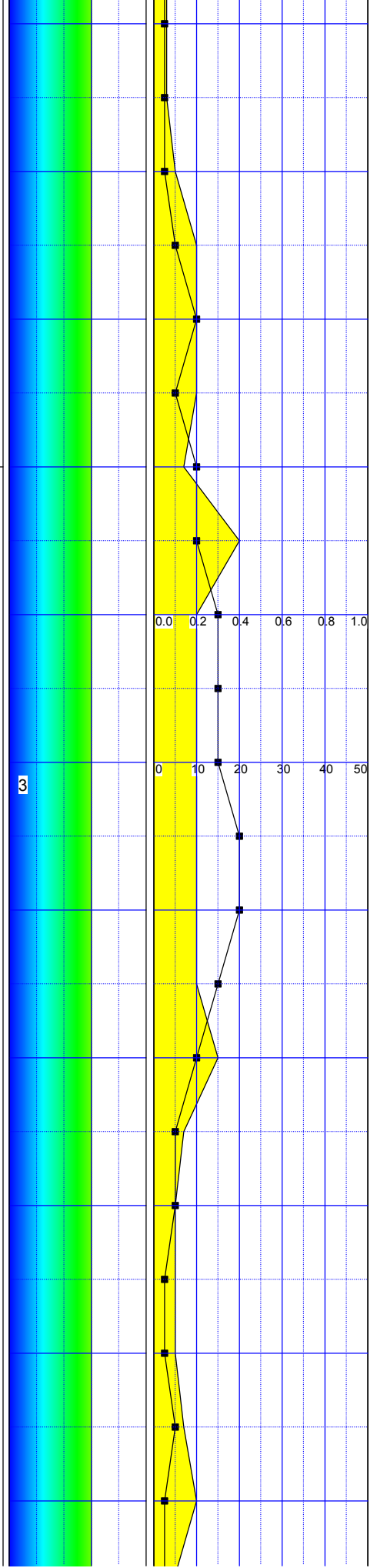
575 feet, then texture becomes massive to
588.5 feet where number of vesicles
increases abruptly, base is broken in small
fragments
Composition: Groundmass, with reddish
olivine crystals
Magnetic
Xenoliths: None noted
Alteration: Very pale orange 10 YR 8/2 clay
on fracture surfaces and fragments,
moderate red 5 R 5/4 film on some fracture
surfaces and inside some vesicles

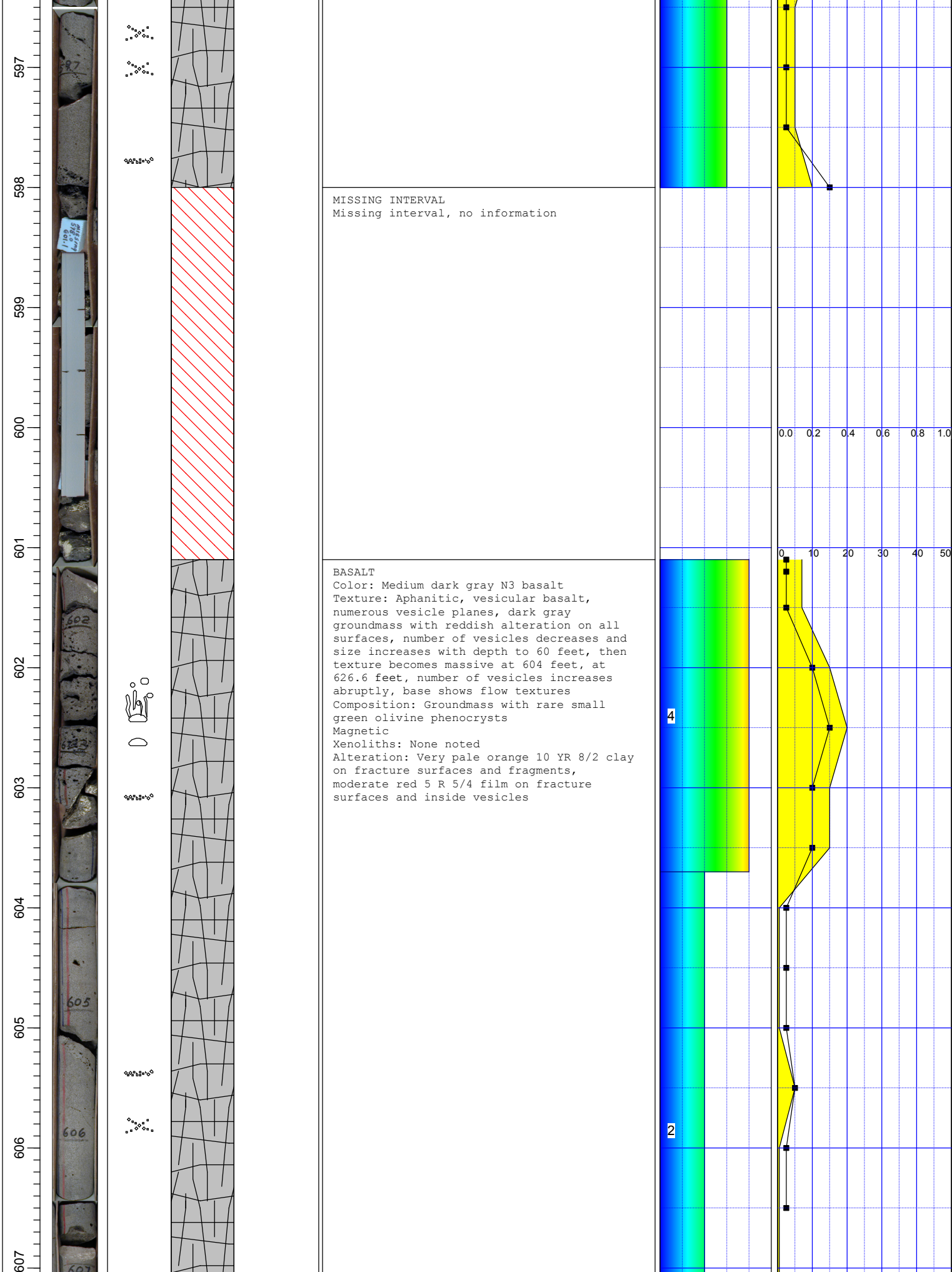


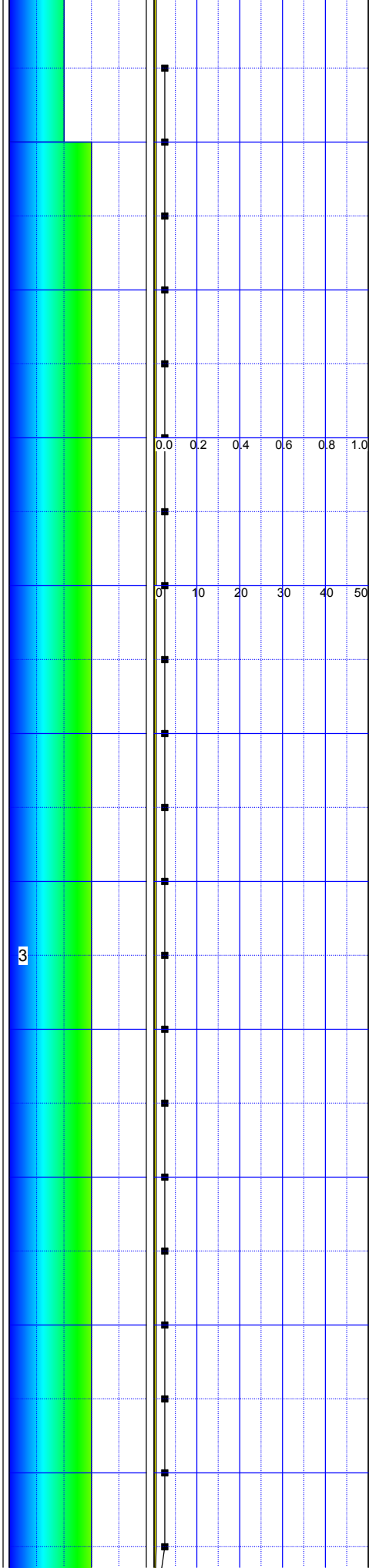
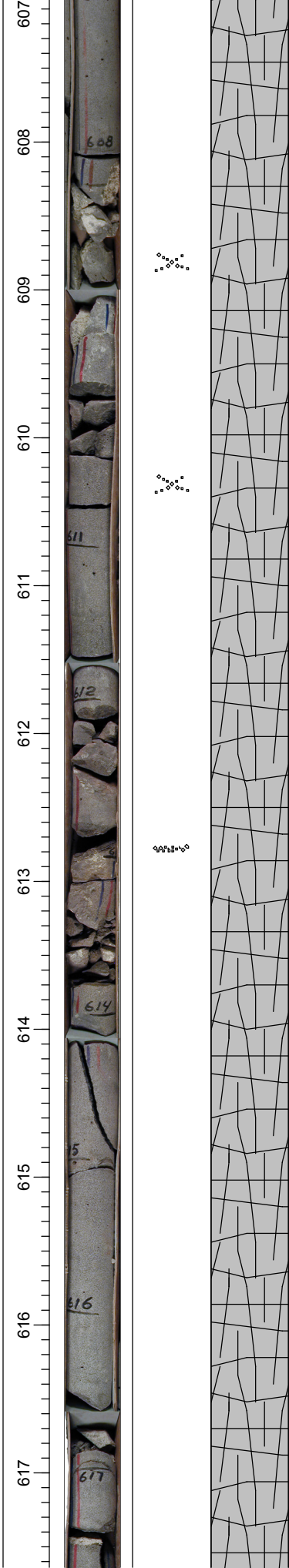


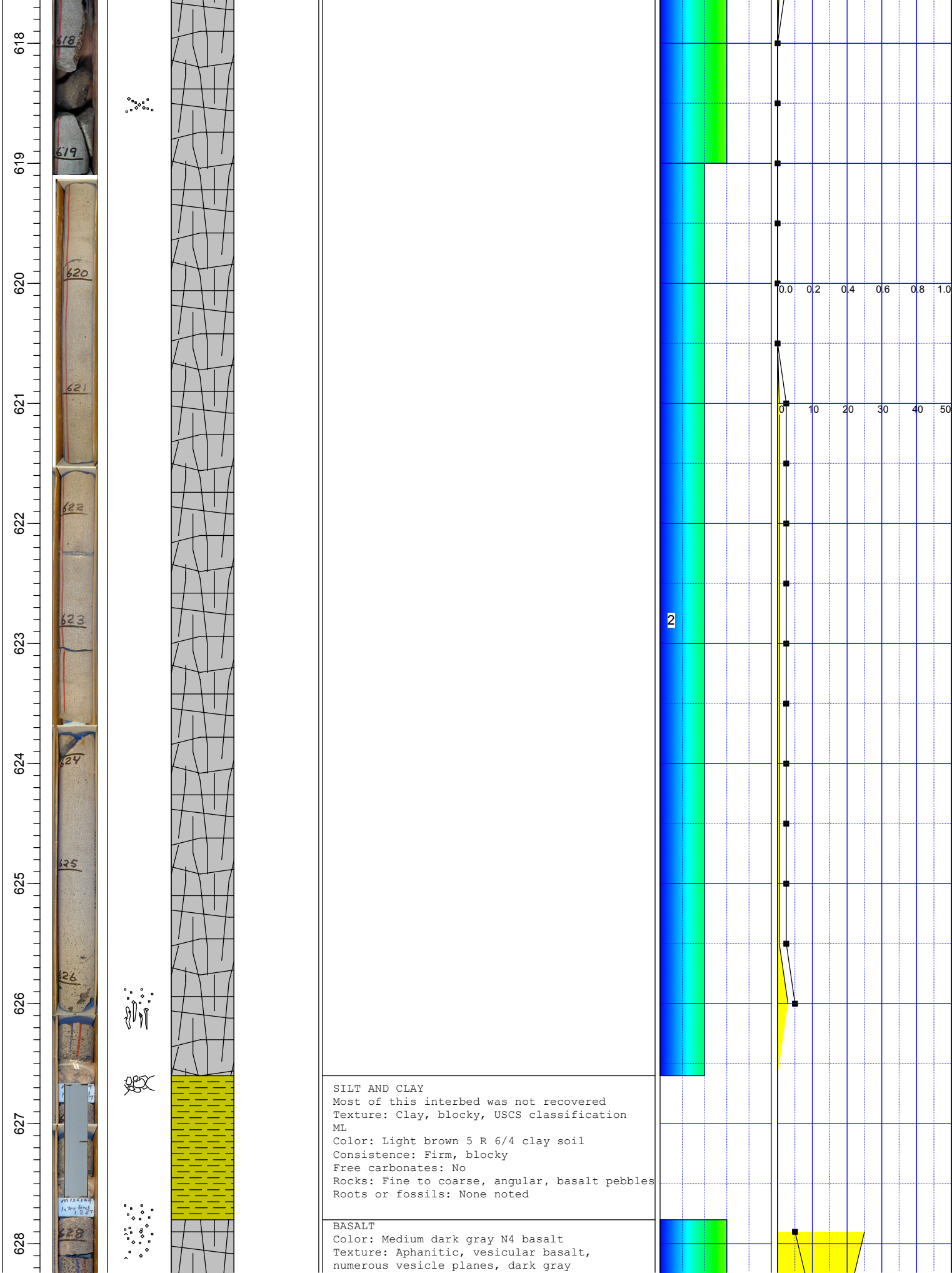


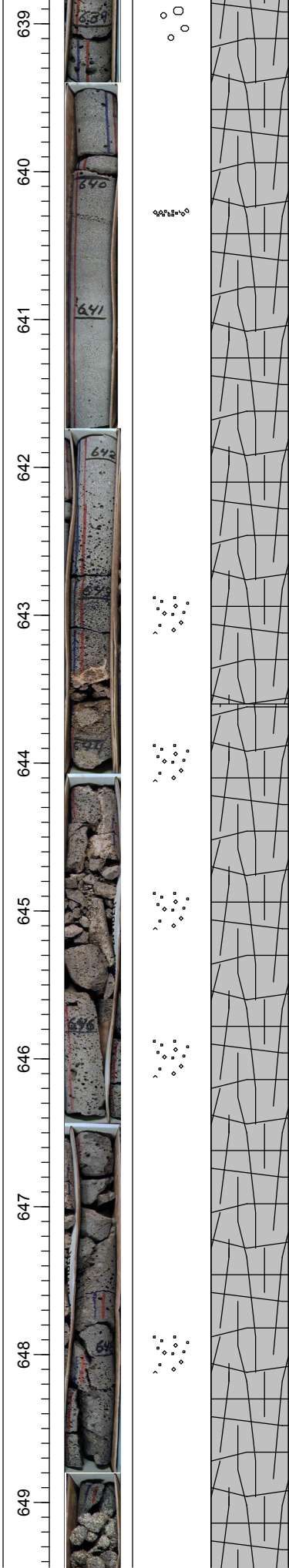
BASALT
Color: Medium dark gray N3 basalt
Texture: Aphanitic, vesicular basalt, numerous vesicle planes, dark gray groundmass with reddish alteration on all surfaces, number of vesicles decreases and size increases with depth to 596 feet, then texture becomes massive; at 598 feet number of vesicles increases abruptly, base is broken in small fragments
Composition: Groundmass
Magnetic
Xenoliths: None noted
Alteration: Very pale orange 10 YR 8/2 clay on fracture surfaces and fragments, moderate red 5 R 5/4 film on fracture surfaces and inside vesicles



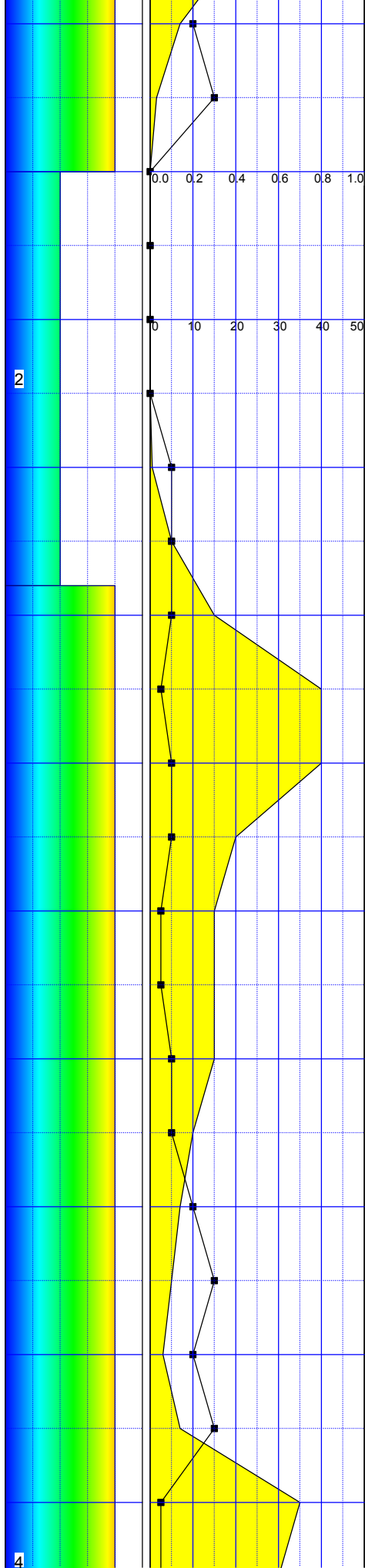


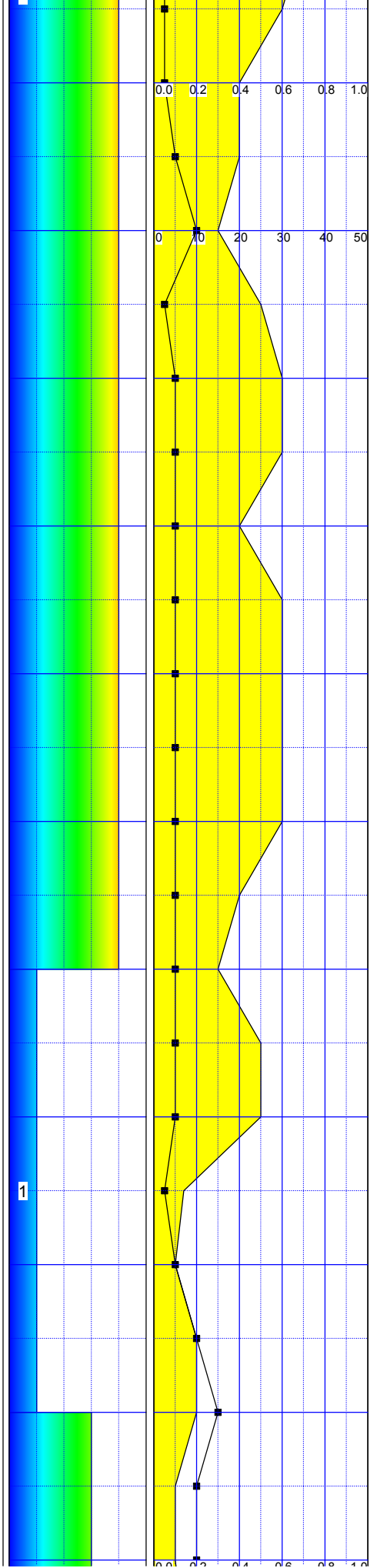
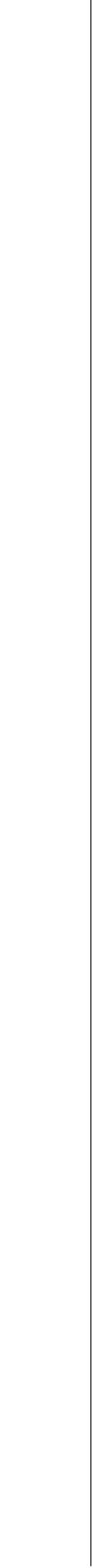
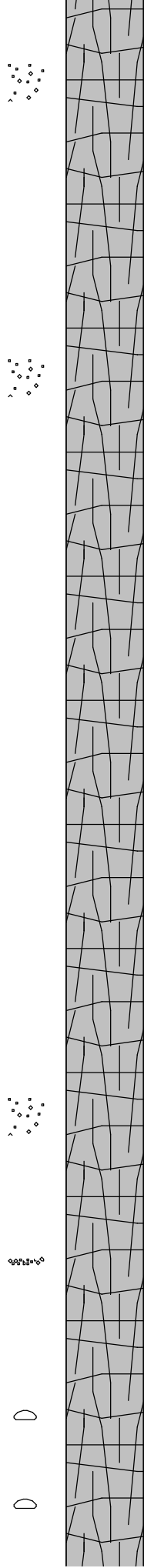
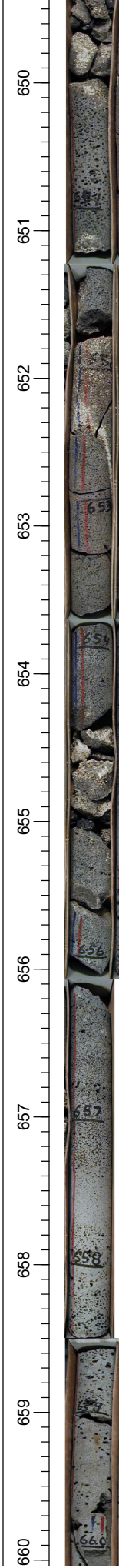


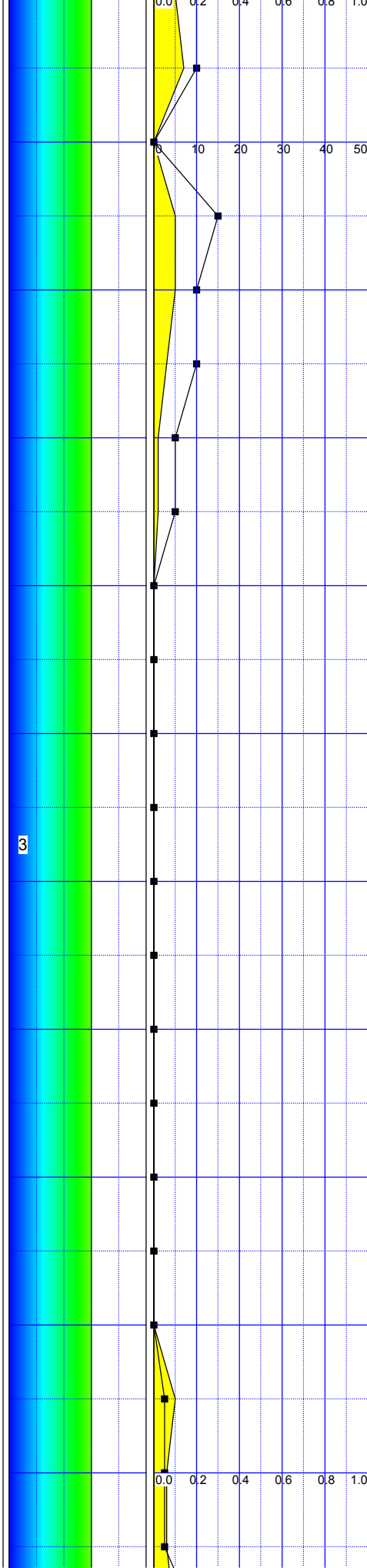
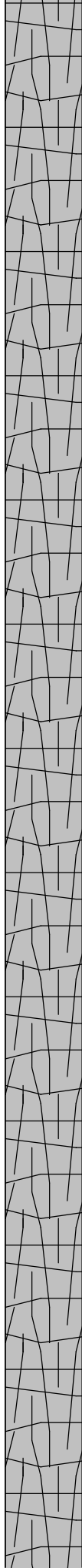


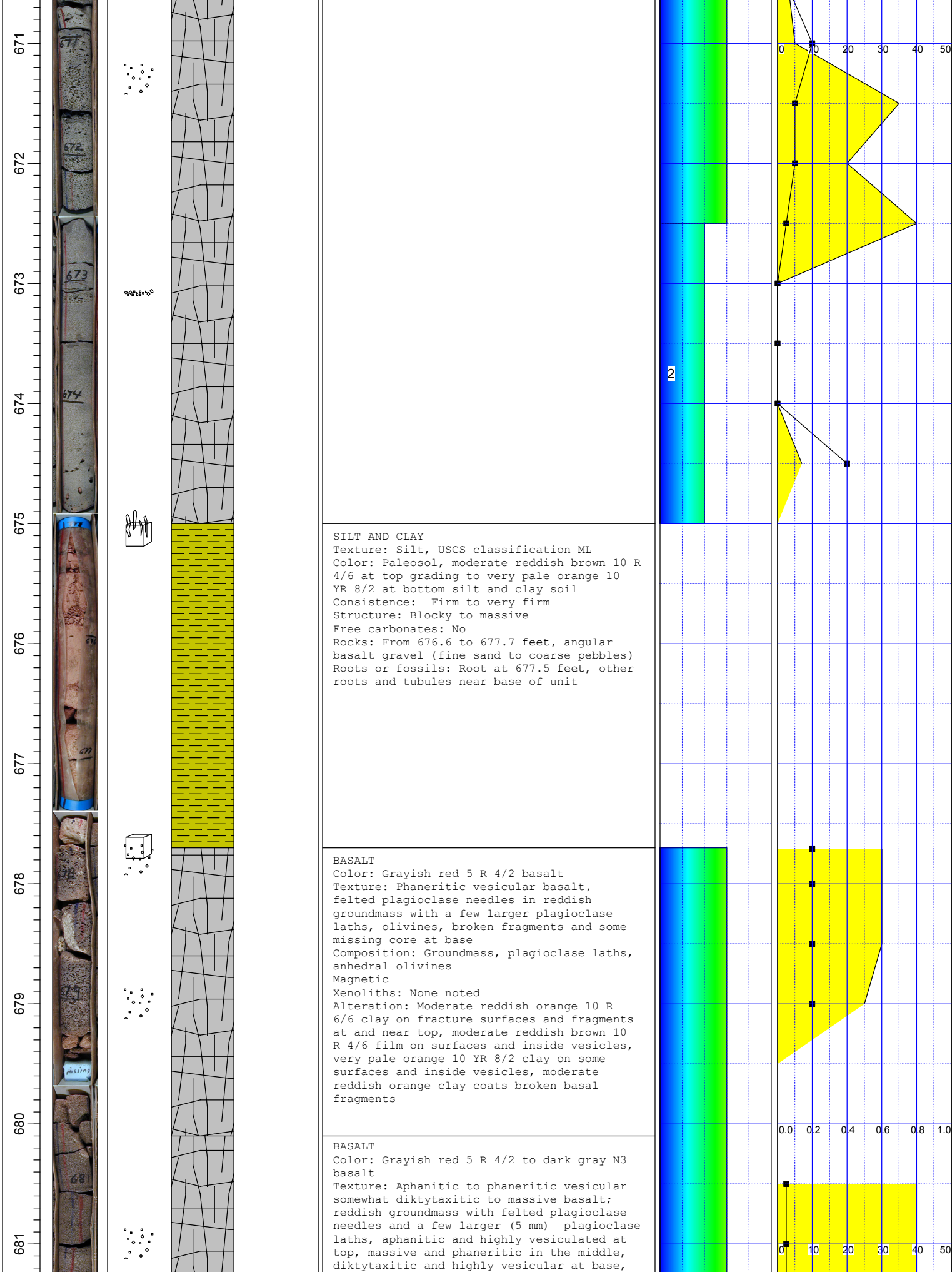


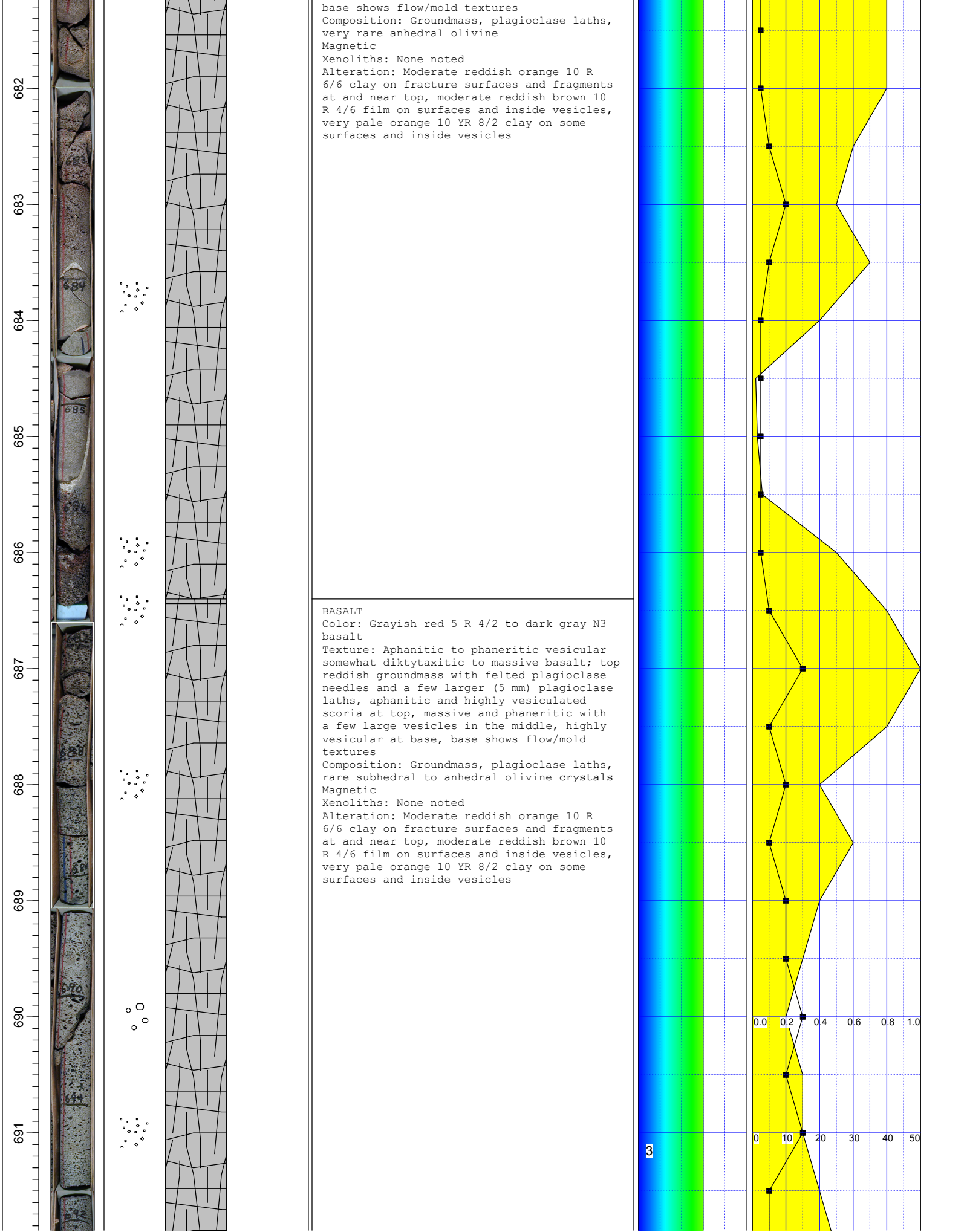
BASALT
Color: Dark gray N3 basalt
Texture: Aphanitic to phaneritic vesicular to diktytaxitic basalt; dark gray groundmass with plagioclase laths, olivines, euhedral plagioclase and pyroxenes in diktytaxitic zones, aphanitic from 643.6 to 662 and from 663.2 to 671.3 feet, diktytaxitic from 671.3 to 672.5 feet, bottom shows flow texture, vesicular zones from 643.6 to 656 feet, and from 671 to 672.5 feet
Composition: Groundmass, plagioclase laths, anhedral olivine, euhedral pyroxenes in diktytaxitic zones
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish orange 10 R 6/6 clay on fracture surfaces and fragments at and near top, moderate reddish brown 10 R 4/6 film on some surfaces and inside some vesicles at and near top, very pale orange 10 YR 8/2 clay on some surfaces and inside vesicles, calcium carbonate on some vesicles

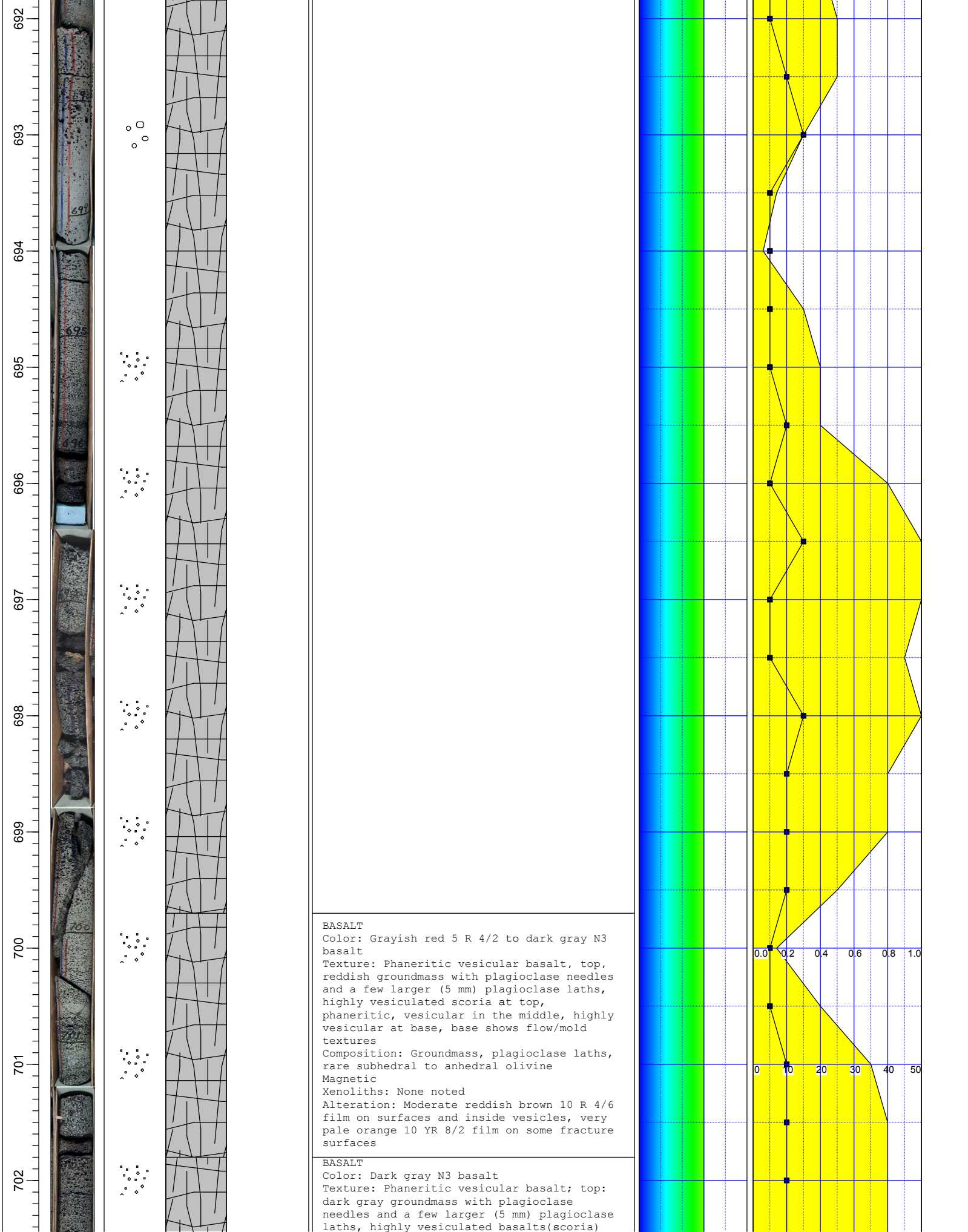


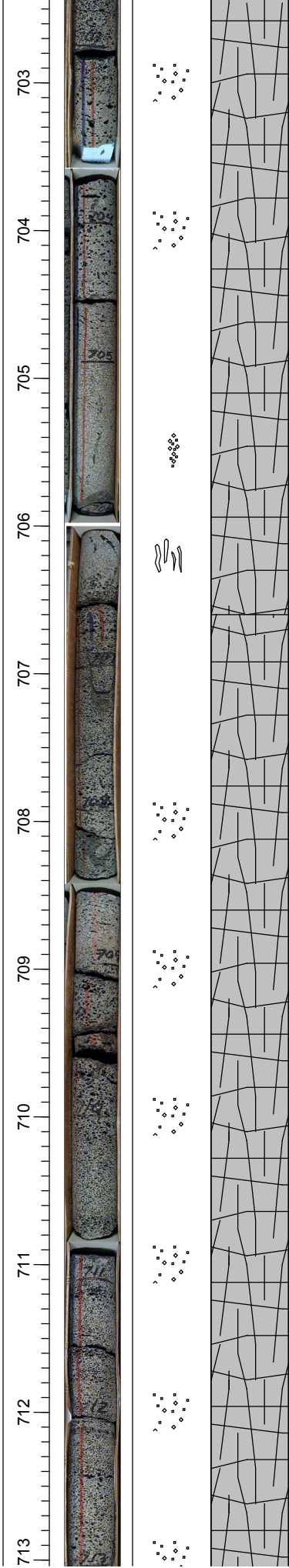






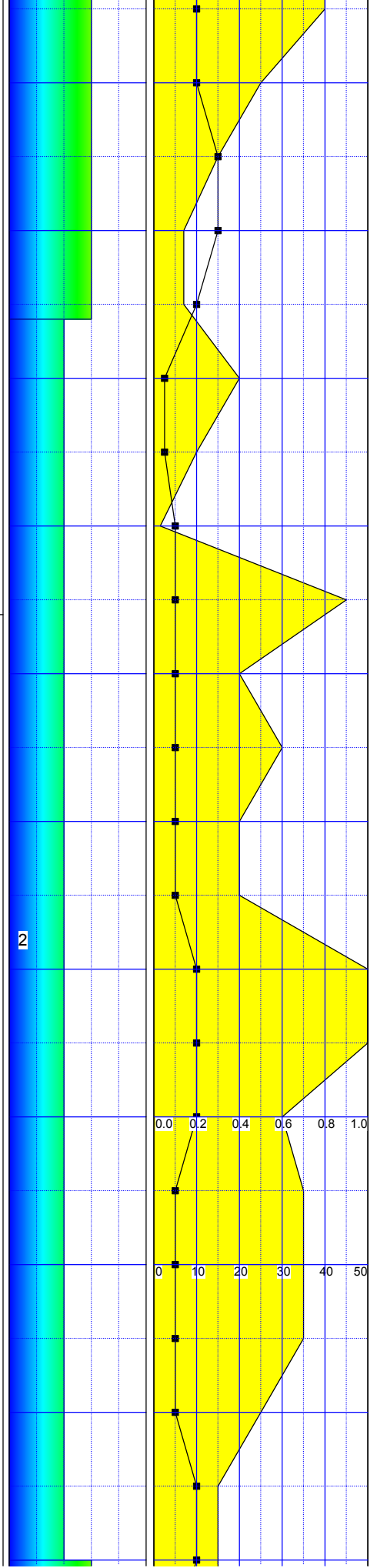


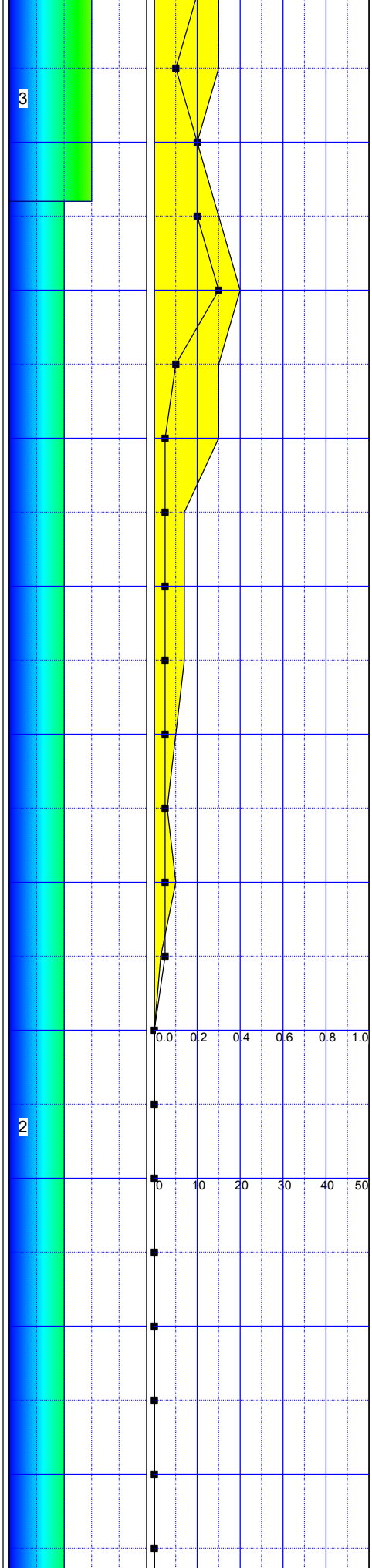
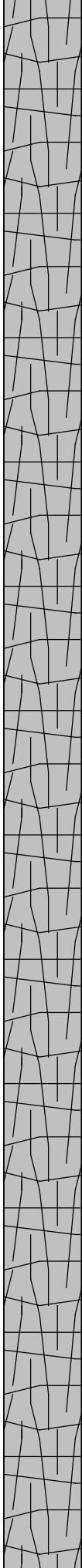


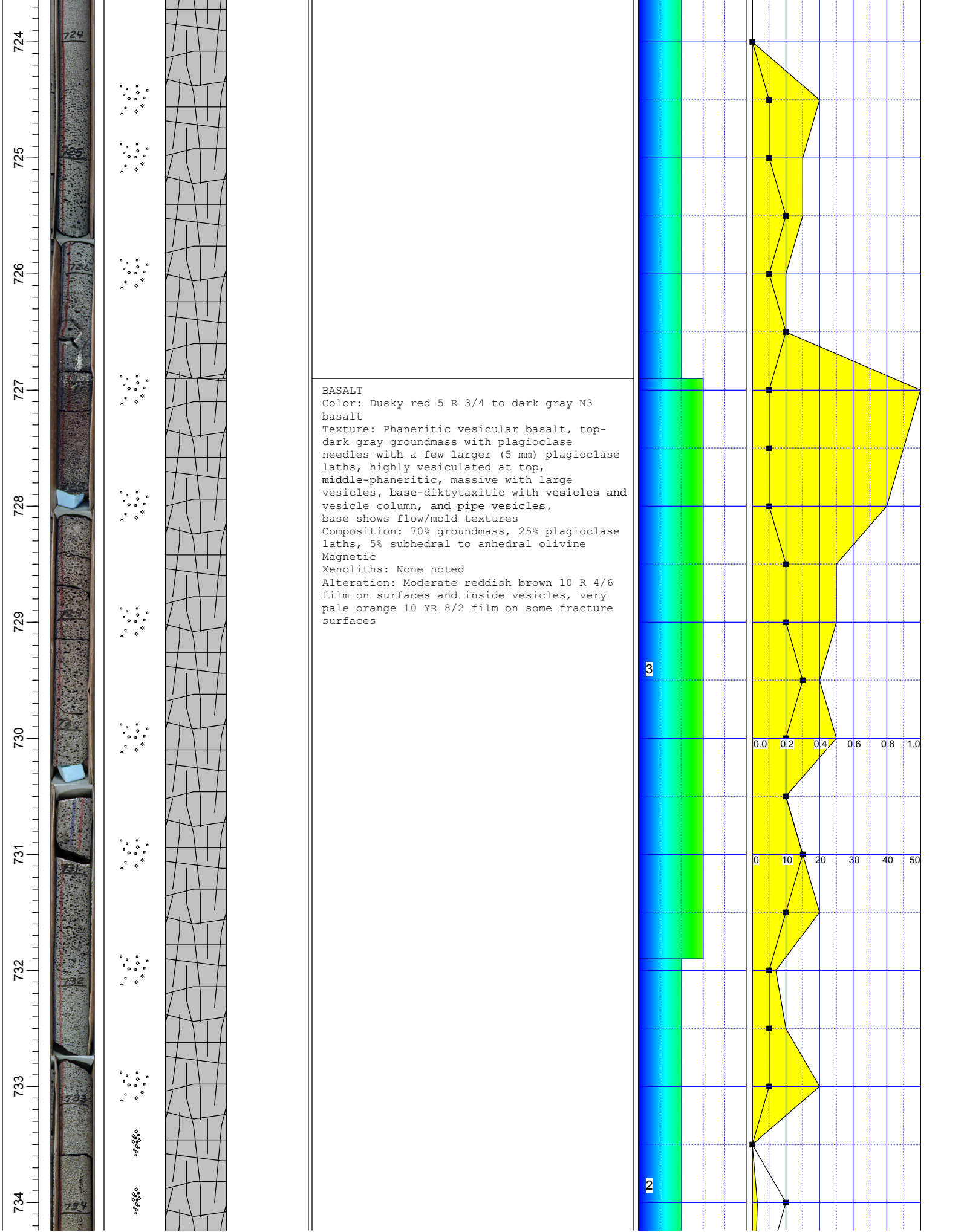


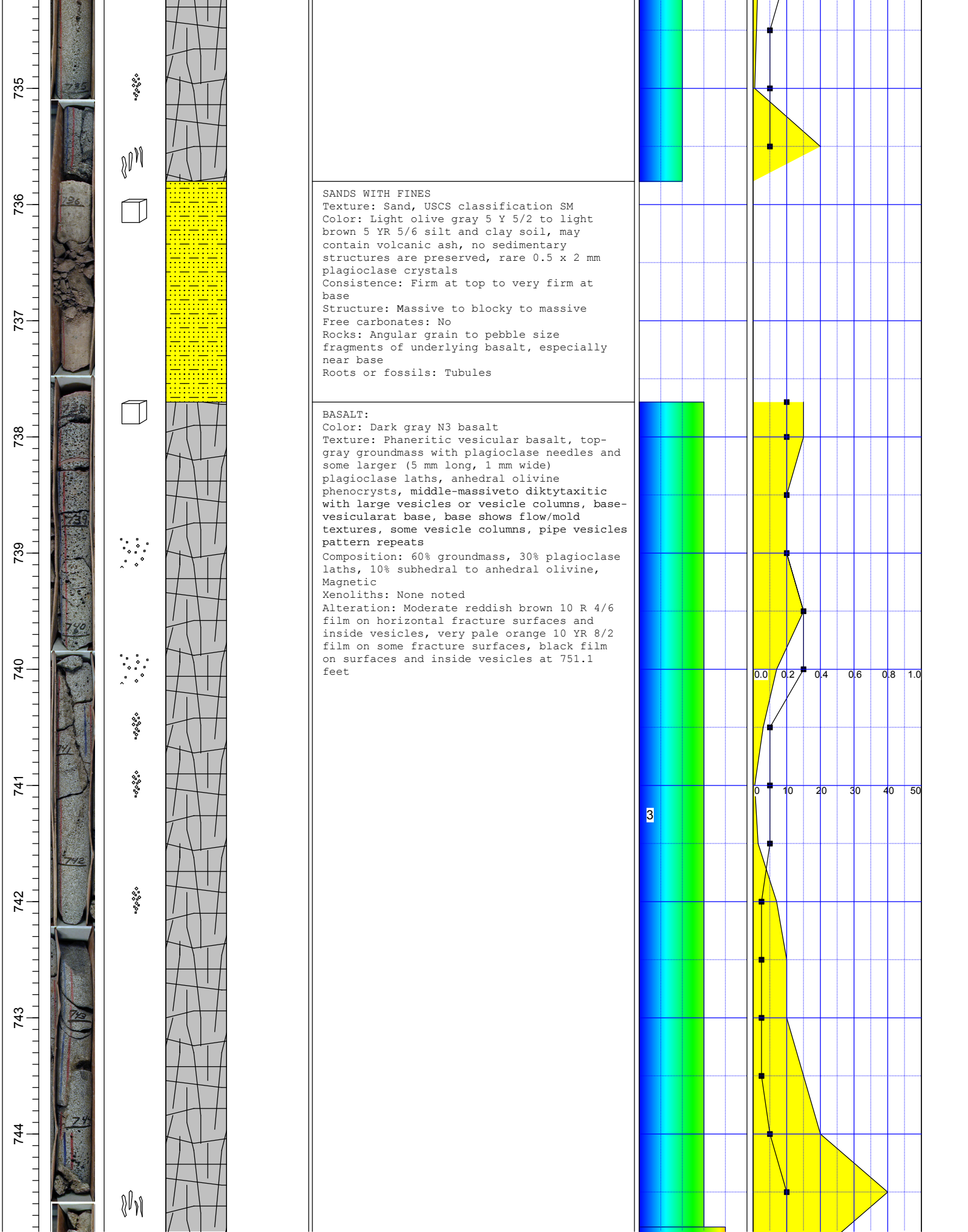
at top, phaneritic, massive in the middle, vesicular at base, base shows flow/mold textures; some vesicle columns, pipe vesicles at base
Composition: 75% groundmass, 20% plagioclase laths, 5% subhedral to anhedral olivine
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown 10 R 4/6 film on surfaces and inside vesicles, very pale orange 10 YR 8/2 film on some fracture surfaces

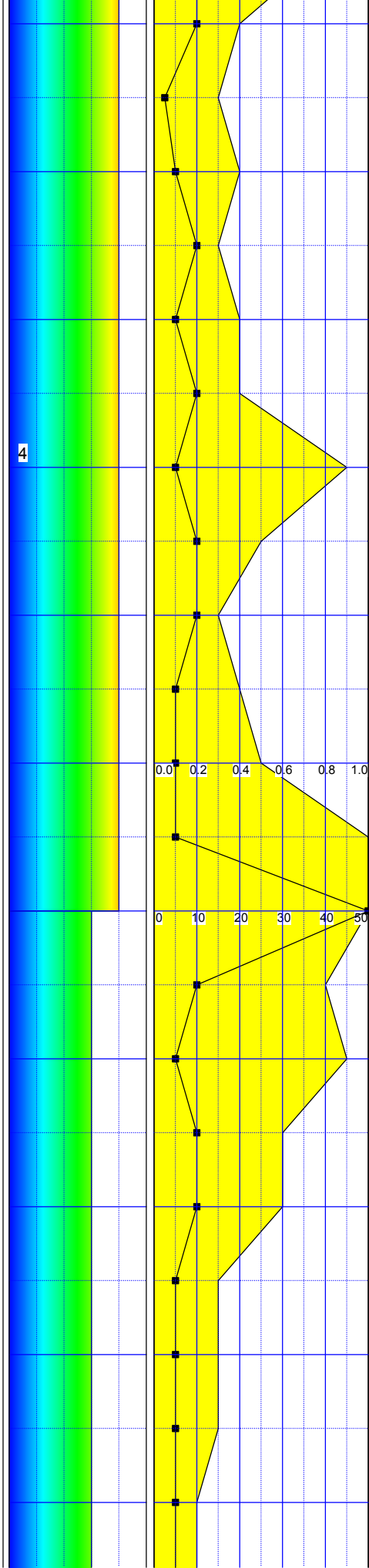
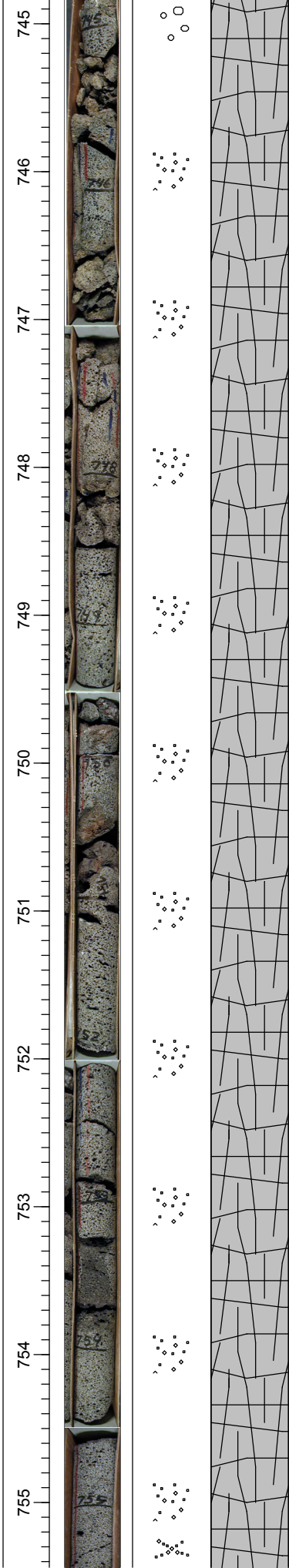
BASALT
Color: Dark gray N3 basalt
Texture: Phaneritic vesicular to massive basalt, top-dark gray groundmass with plagioclase needles and a few larger (5 mm) plagioclase laths and rare small anhedral olivine, vesiculated at top, middle-phaneritic, vesicular to massive, base-vesicular, base shows flow/mold textures, some vesicle columns, pipe vesicles at base
Composition: 75% groundmass, 20% plagioclase laths, 5% subhedral to anhedral olivine
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown 10 R 4/6 film on surfaces and inside vesicles, very pale orange 10 YR 8/2 film on some fracture surfaces, very thin cindery material at top and on surfaces at 709.1, 709.5, and 709.7 feet, radiating acicular calcite in vertical fracture at base

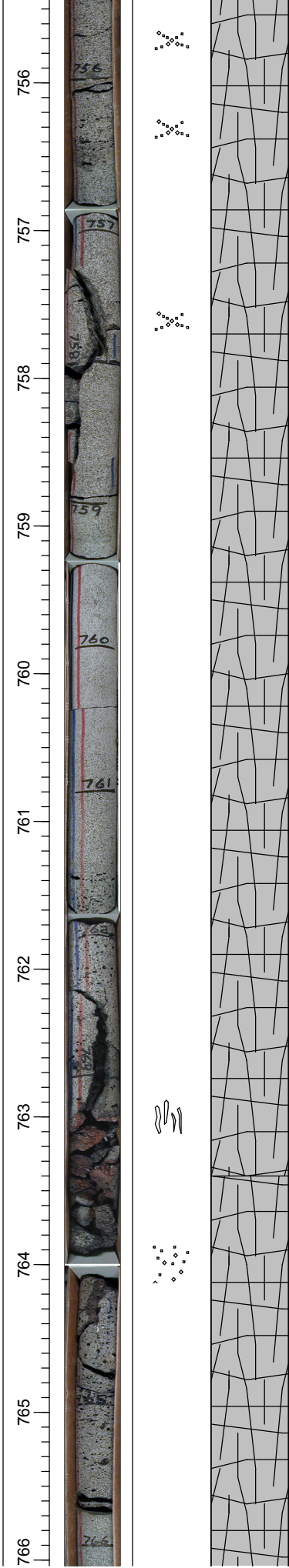




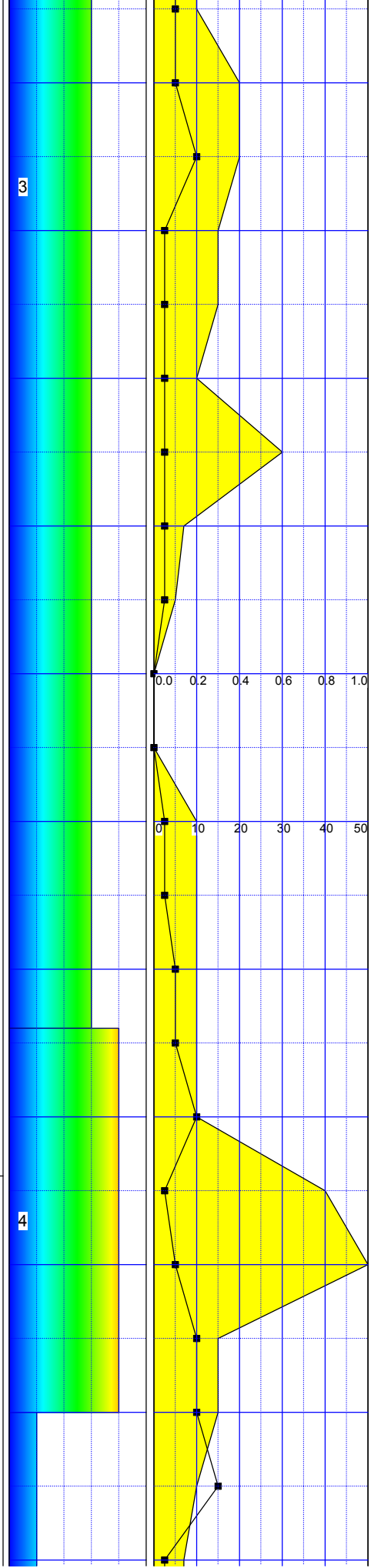


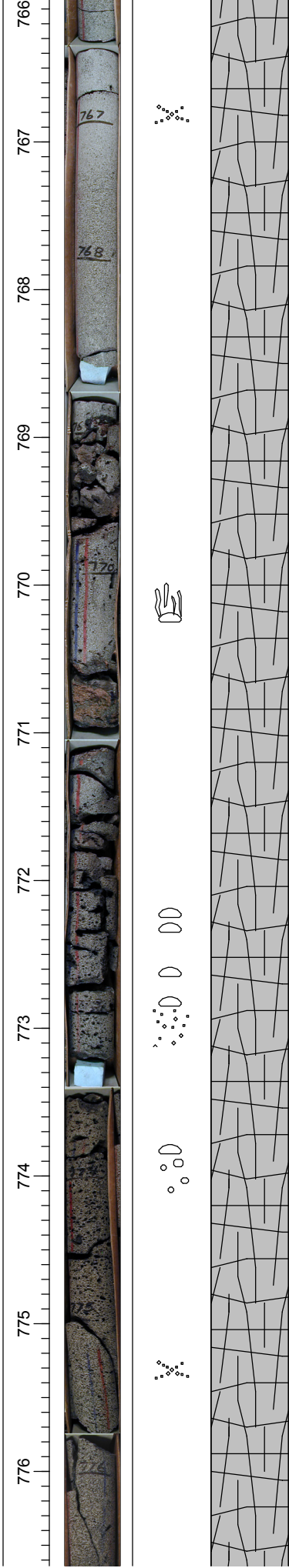




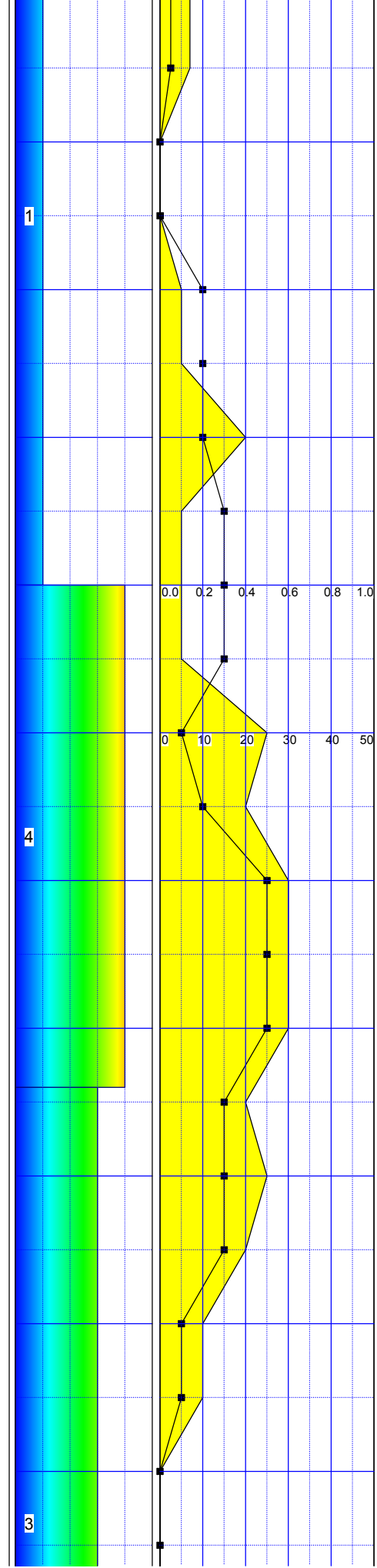


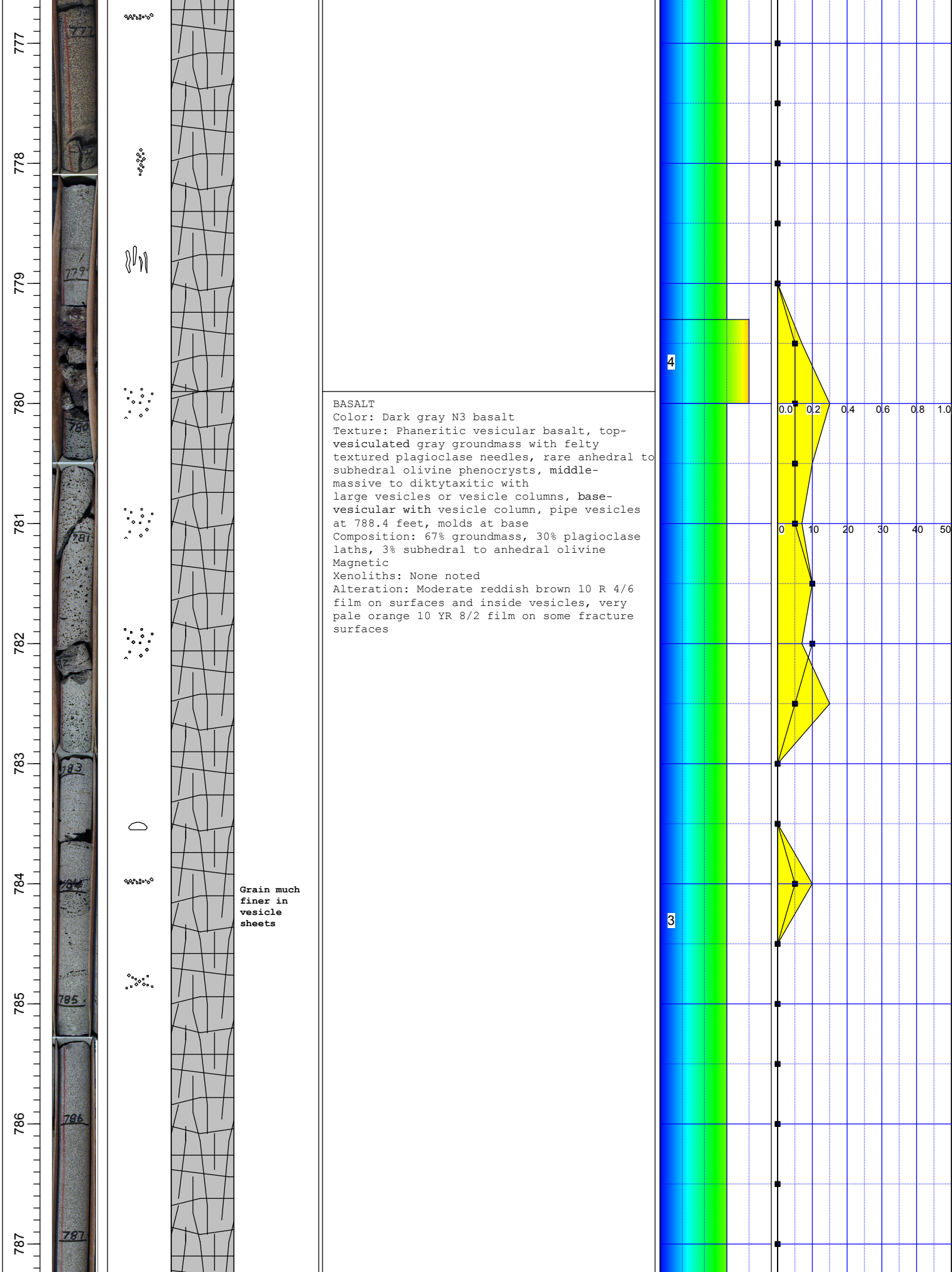
BASALT
Color: Dark gray N3 basalt
Texture: Phaneritic vesicular basalt, top-gray groundmass with framework to felty textured plagioclase needles and some large (10 mm long, 3 mm wide) plagioclase laths, anhedral to subhedral olivine phenocrysts, euhedral pyroxene phenocrysts visible in handlens in vesicles of vesicle columns, middle-massive to diktytaxitic with large vesicles or vesicle columns, base-diktytaxitic with vesicle column with vesicles at base, agglomerated spatter texture from 779.4 to 779.9 feet, pipe vesicles at 770 and 779 feet, megavesicles from 770 to 772.8 feet
Composition: 50% groundmass, 40% plagioclase laths, 10% subhedral to anhedral olivine, rare pyroxene, phenocryst size increases with depth
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown 10 R 4/6 film on horizontal fracture surfaces and

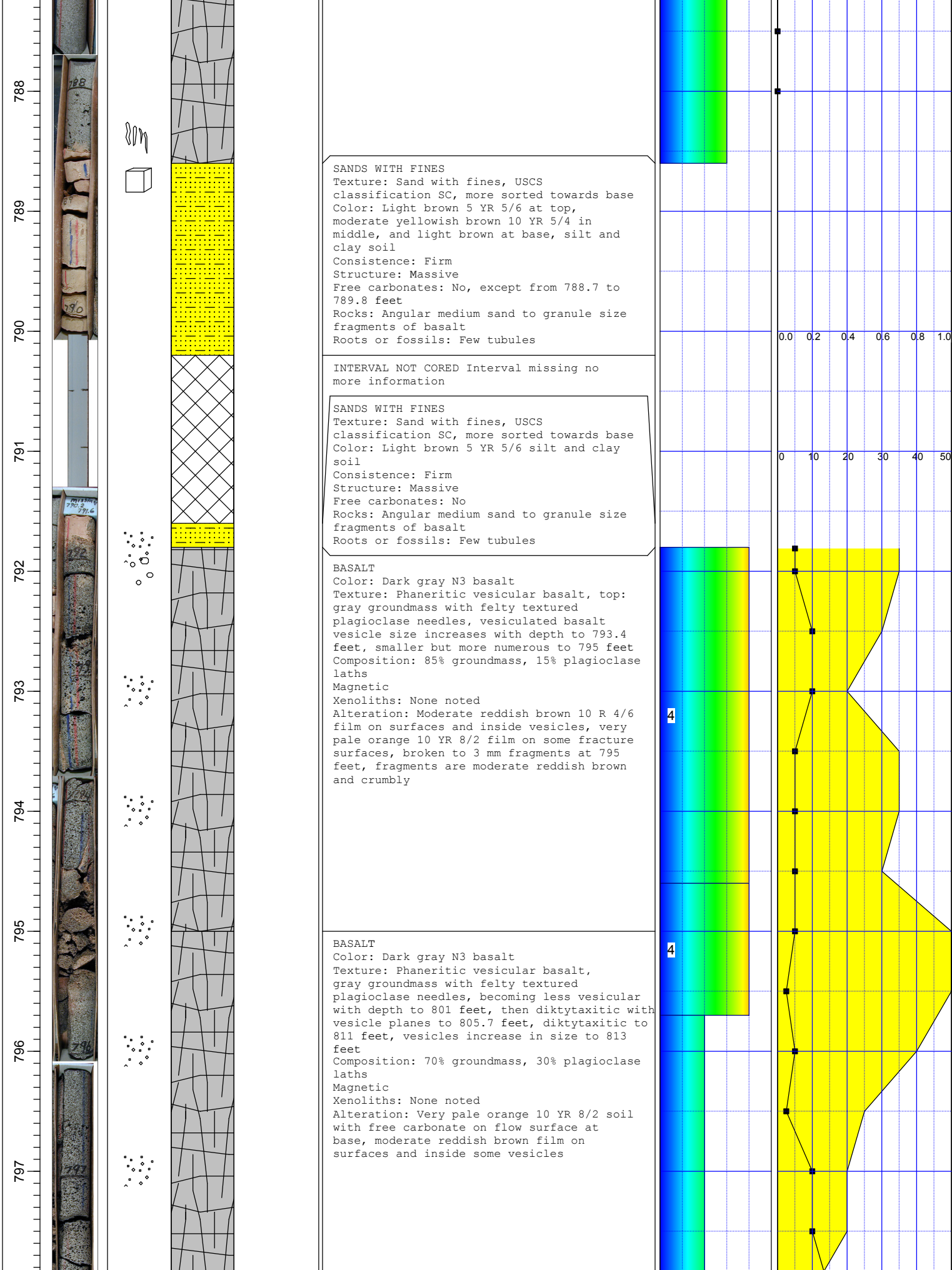


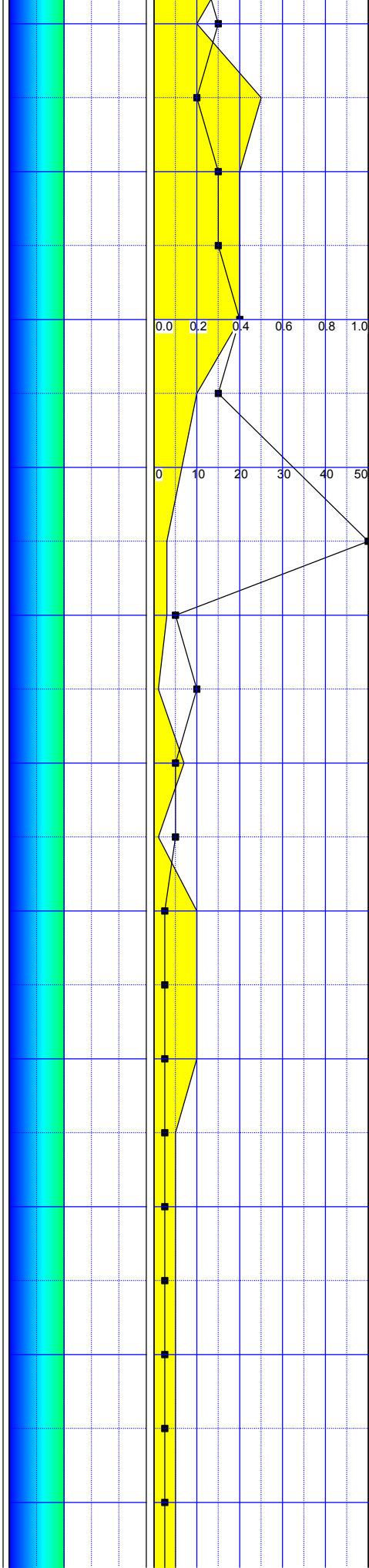
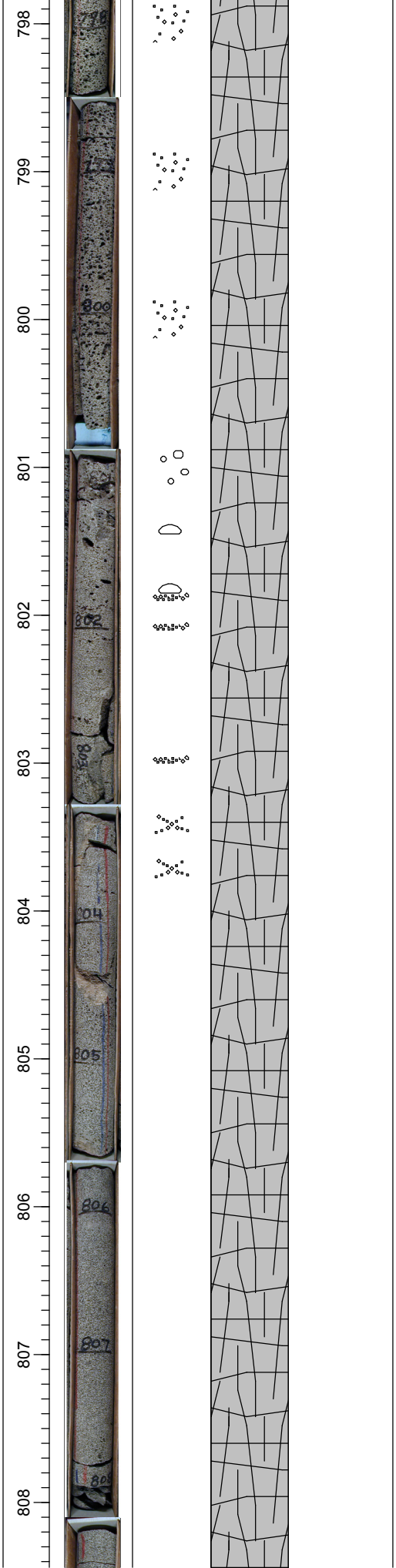


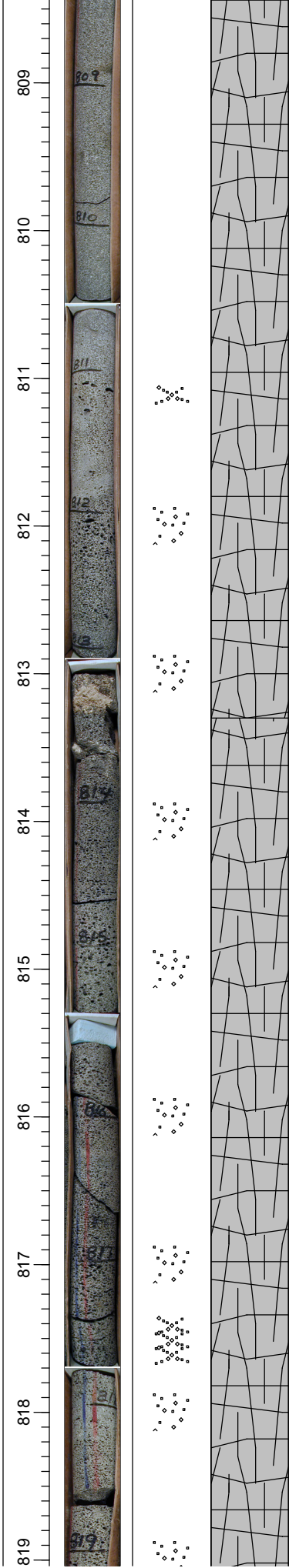
inside vesicles, very pale orange 10 YR 8/2
film on some fracture surfaces, black film
on surfaces and inside vesicles at 770 feet



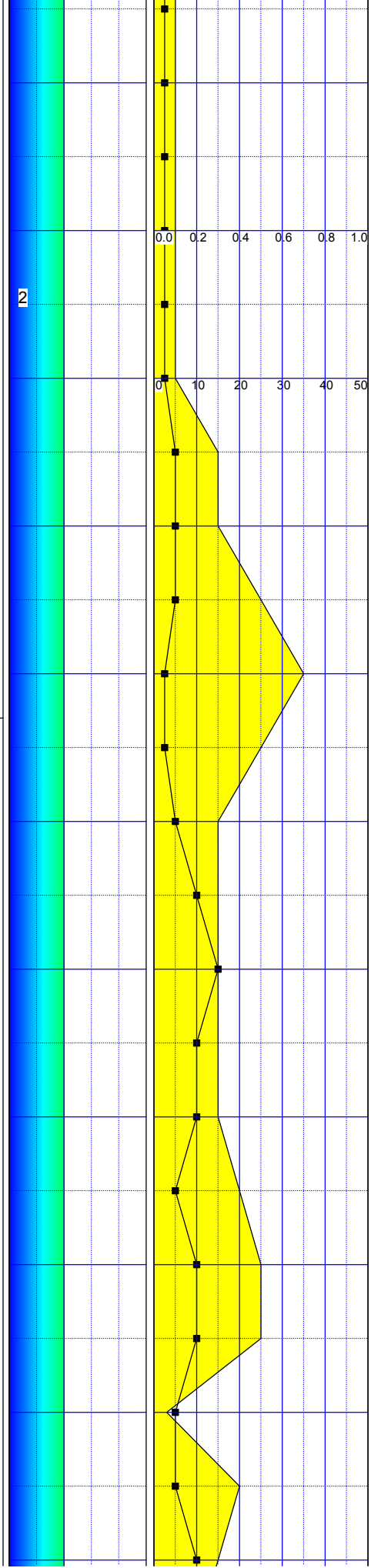


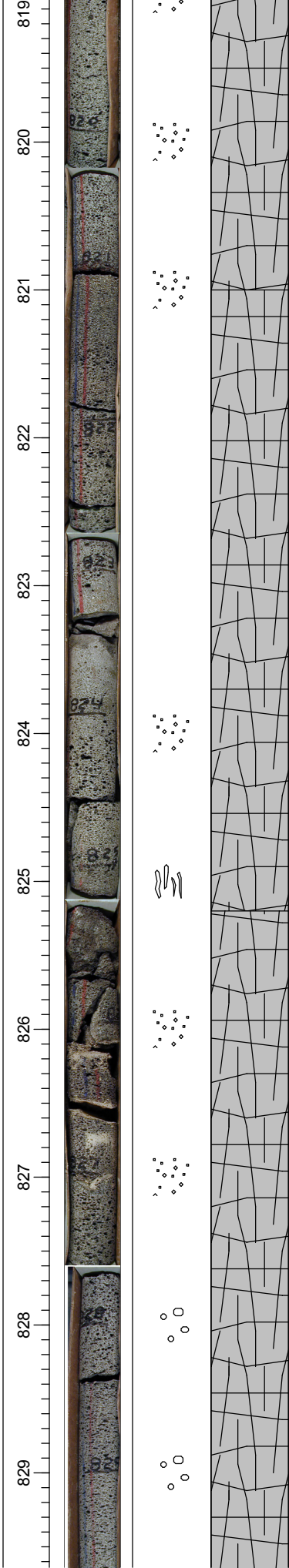






BASALT
Color: Dark gray N3 basalt
Texture: Phaneritic fine-grained vesicular basalt, gray groundmass with plagioclase needles, blackish-red cindery texture at base
Composition: 70% groundmass, 25% plagioclase laths, 5% anhedral olivine
Magnetic
Xenoliths: None noted
Alteration: Very pale orange 10 YR 8/2 soil with free carbonate on flow surface at base, moderate reddish brown film on surfaces and inside some vesicles



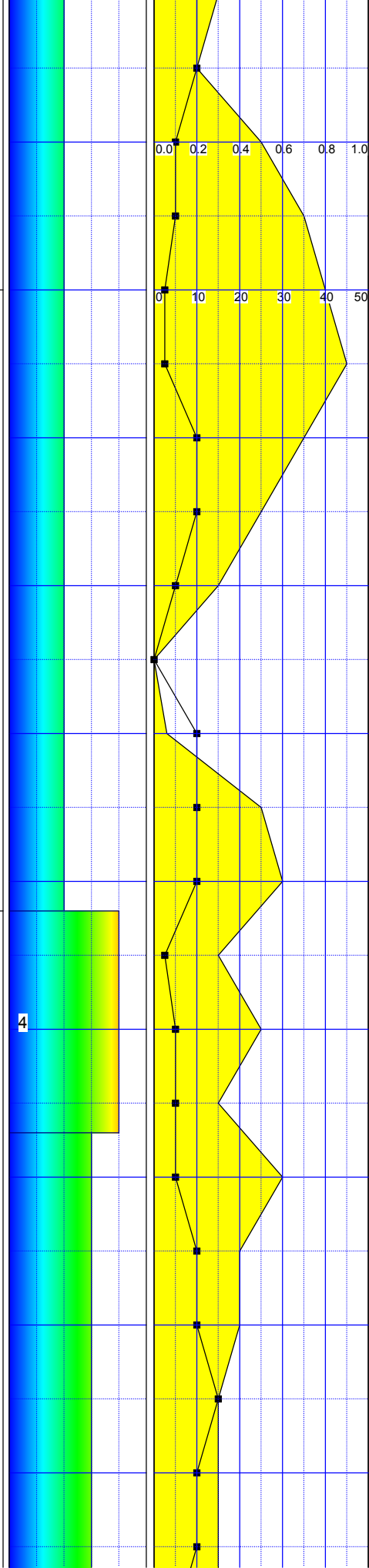


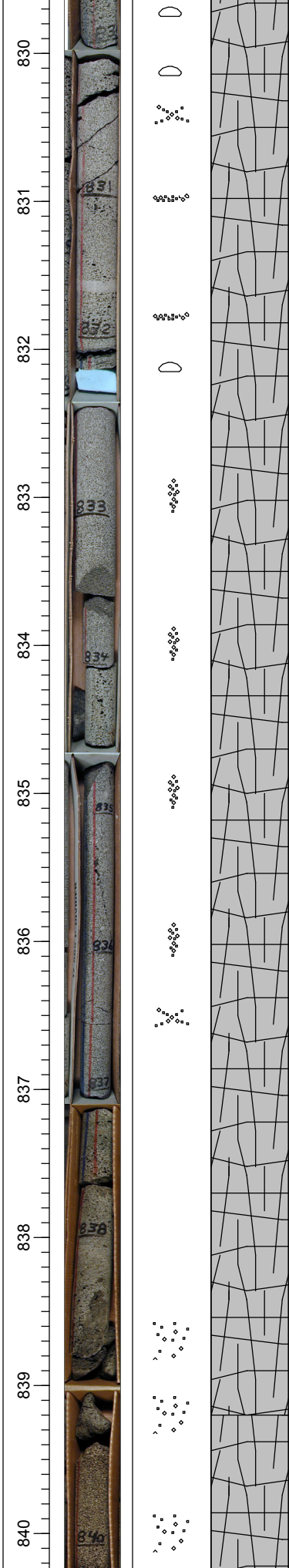
BASALT

Color: Medium light gray N6 to light gray N7
basalt
Texture: Phaneritic medium grained
vesicular basalt, gray groundmass with
plagioclase laths, vesicles increase in size
with depth to 823 feet, pipe vesicles at 825',
red cindery texture at base
Composition: 65% groundmass, 35% plagioclase
laths, trace olivine
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on
surfaces and inside some vesicles; dark gray
to black film inside many vesicles,
especially near base, very pale orange 10 YR
8/2 clay in vesicles at top; top and base
show flow textures and cindery surfaces

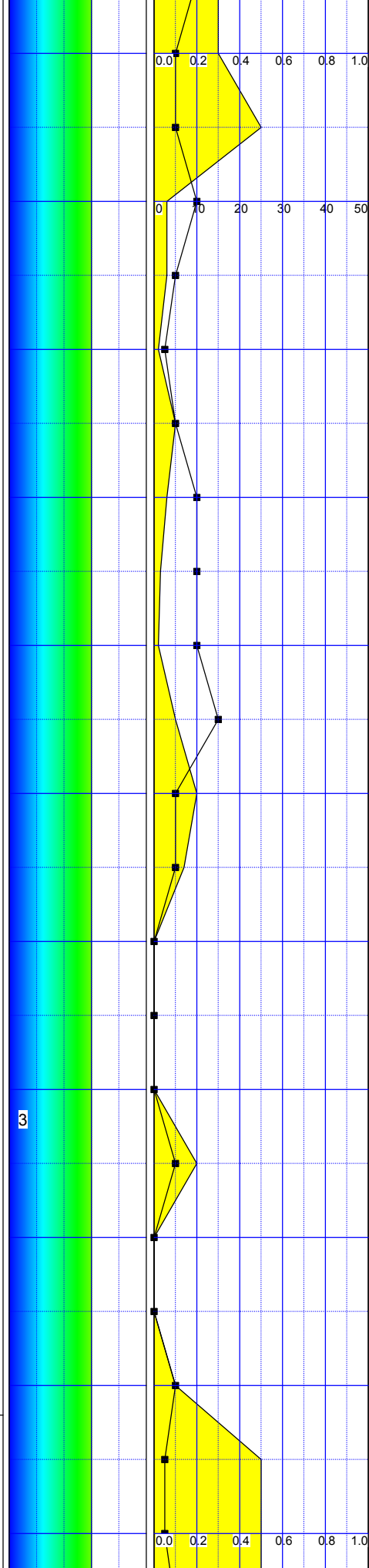
BASALT

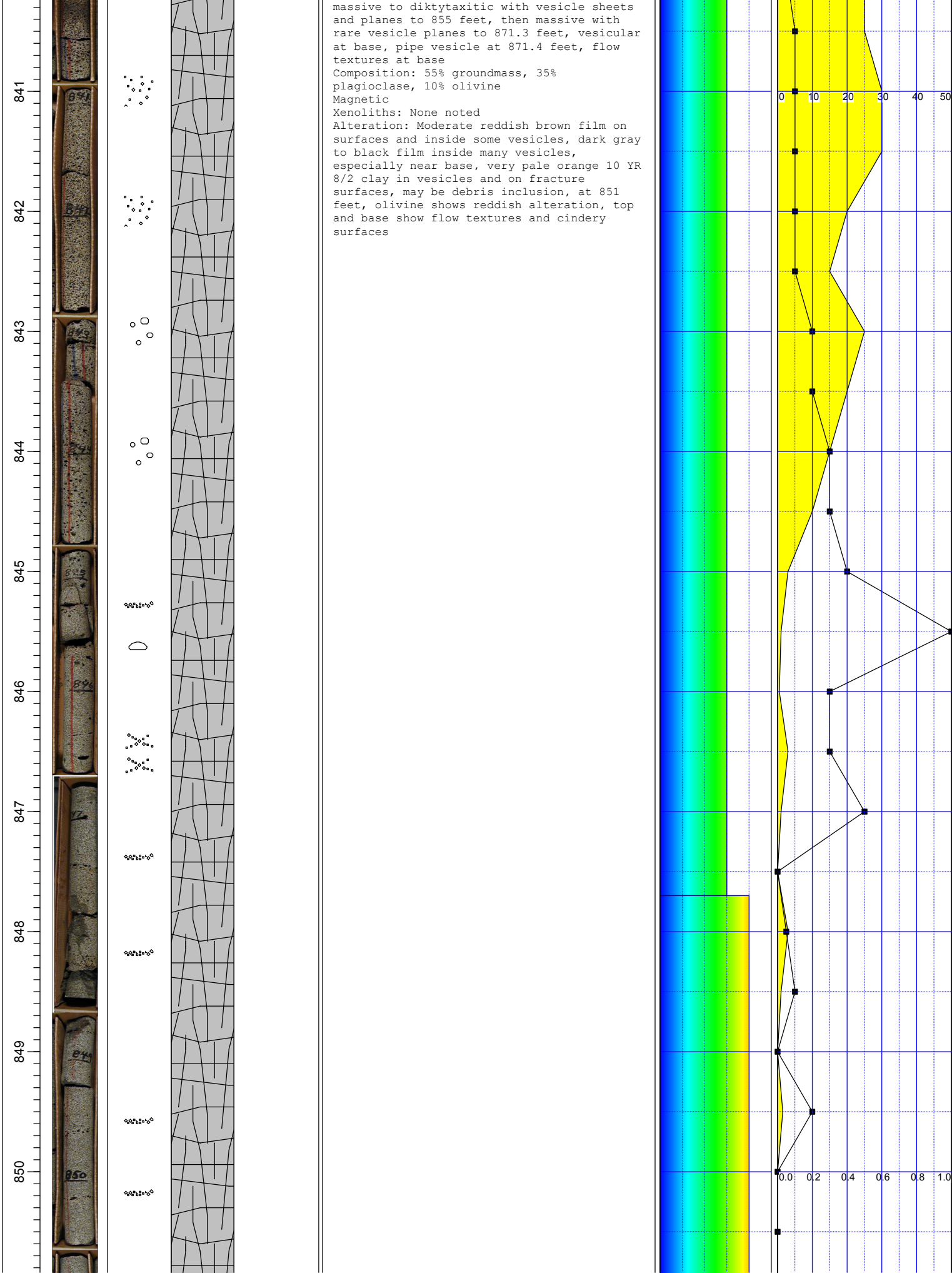
Color: Brownish gray 5 YR 4/1 to dark gray
N3 basalt
Texture: Phaneritic, porphyritic medium
grained vesicular basalt, gray groundmass
with 1x5 mm plagioclase laths and tabular
5x5 mm plagioclase and 1 mm subhedral
olivine phenocrysts, vesicles increase in
size with depth to 829, then fewer vesicles
to 831, vesicle columns from 836 to 832 feet,
vesicle sheets and planes 830 to 932 feet,
red cindery texture at base
Composition: 55% groundmass, 35% plagioclase,
10% olivine
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on
surfaces and inside some vesicles, dark gray
to black film inside many vesicles,
especially near base, very pale orange 10 YR
8/2 clay in vesicles and on fracture
surfaces, carbonate film in megavesicle at
832.1 feet, top and base show flow
textures and cindery surfaces

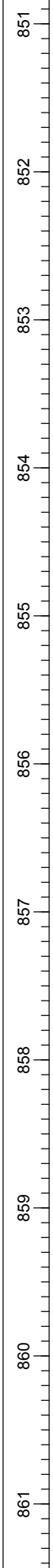




BASALT
Color: Medium gray N5 to brownish gray 5 YR 4/1 to dark gray N3 basalt
Texture: Phaneritic, porphyritic medium grained vesicular basalt; gray groundmass with 1x5 mm plagioclase laths and tabular 5x5 mm plagioclase and 1 mm olivine phenocrysts; vesicles increase in size with depth to 845 feet, megavesicle at 845.6 feet,





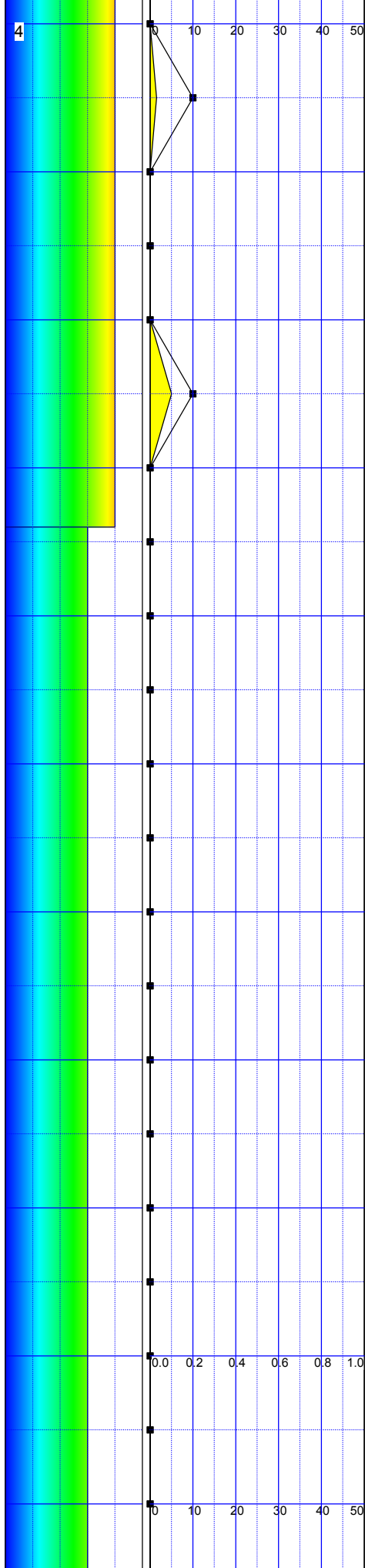
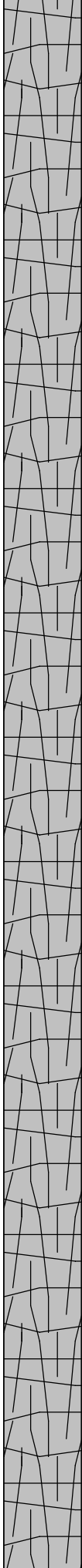


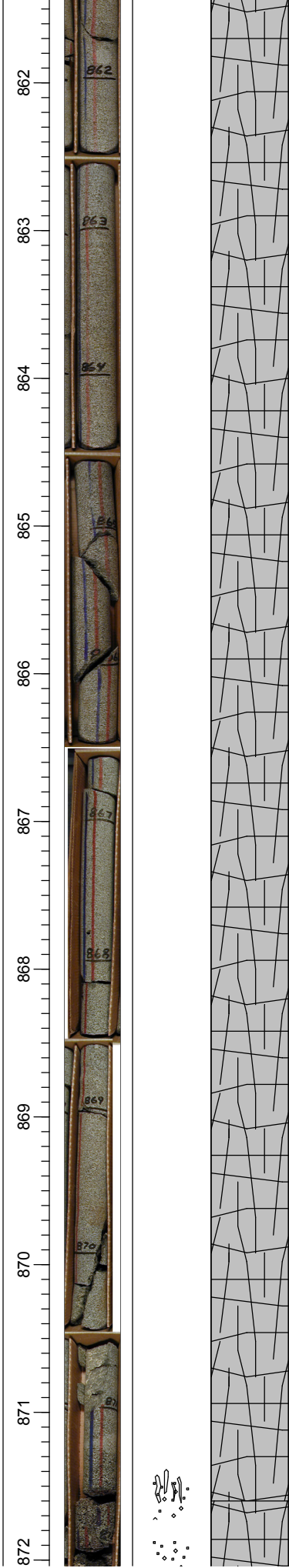
99%_h8=100

99%_h8=100

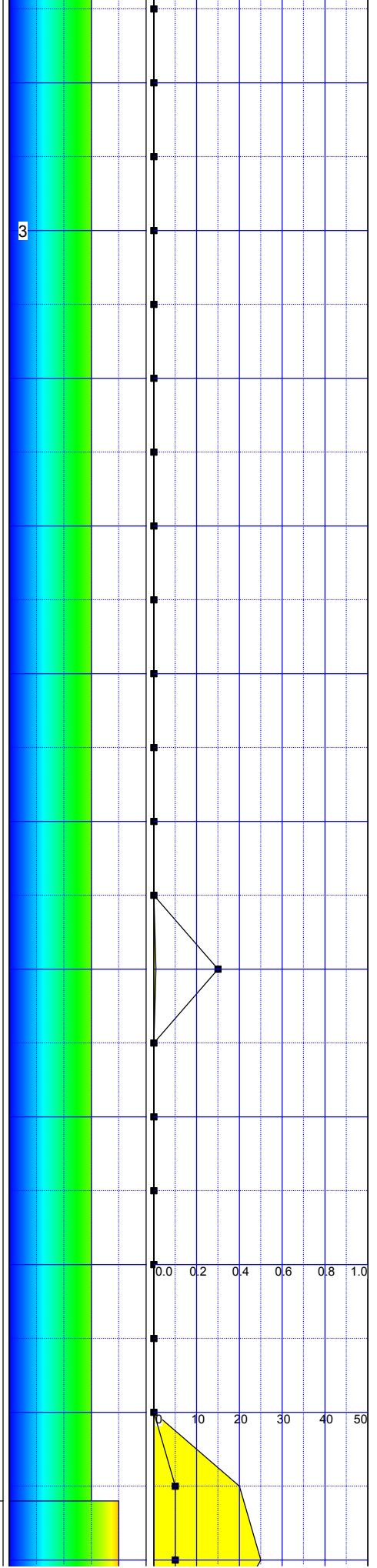
99%_h8=100

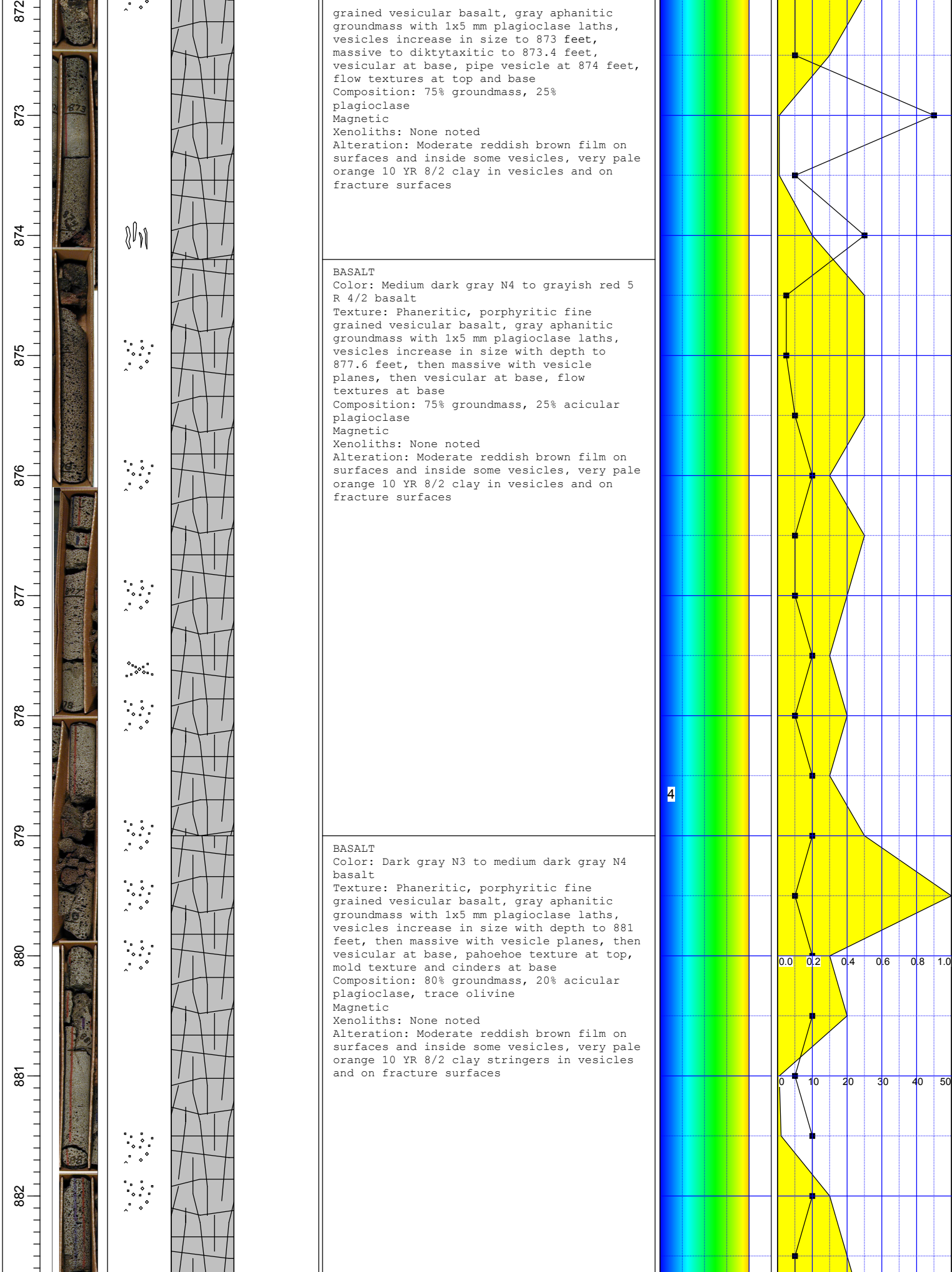
99%_h8=100

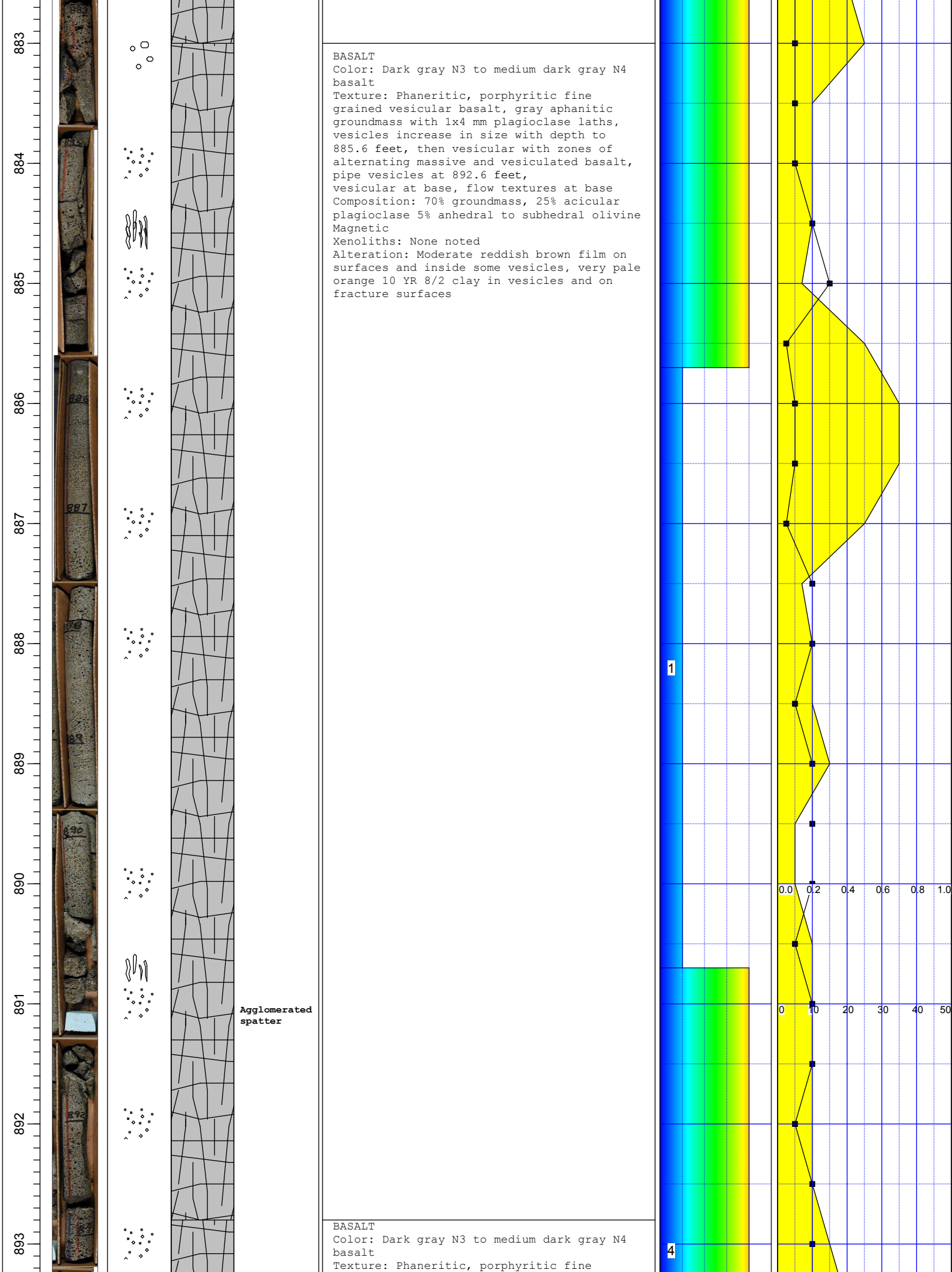


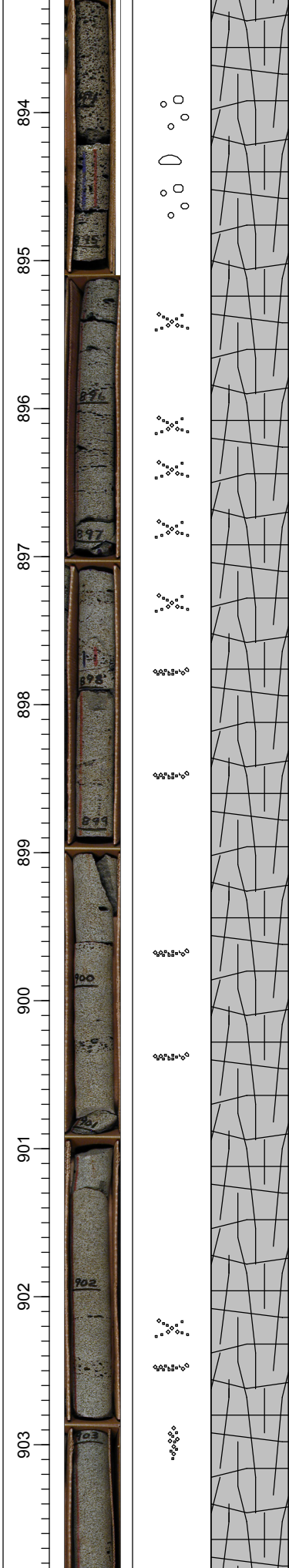


BASALT
Color: Dark gray N3 to medium dark gray N4
basalt
Texture: Porphyritic fine

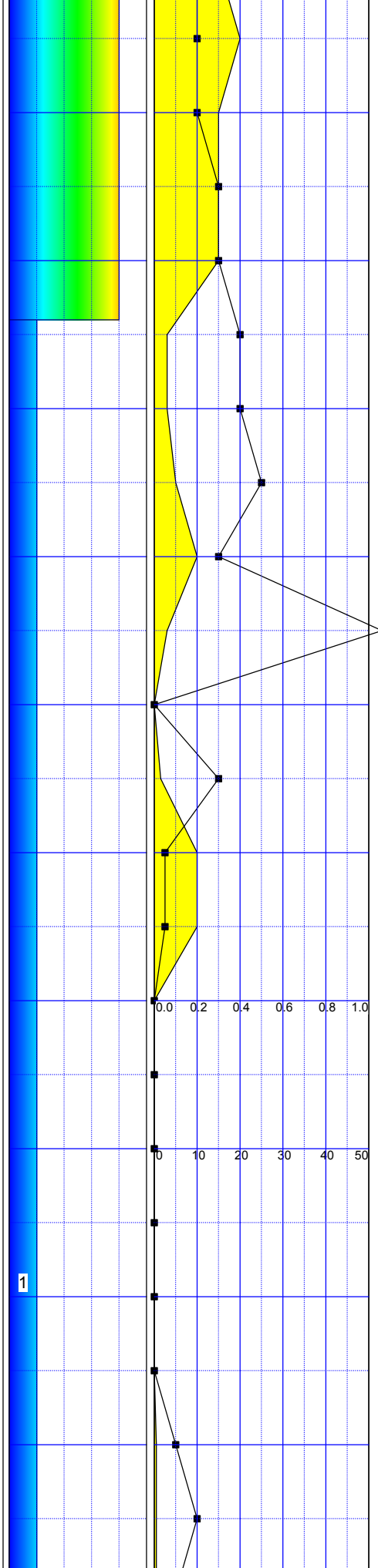


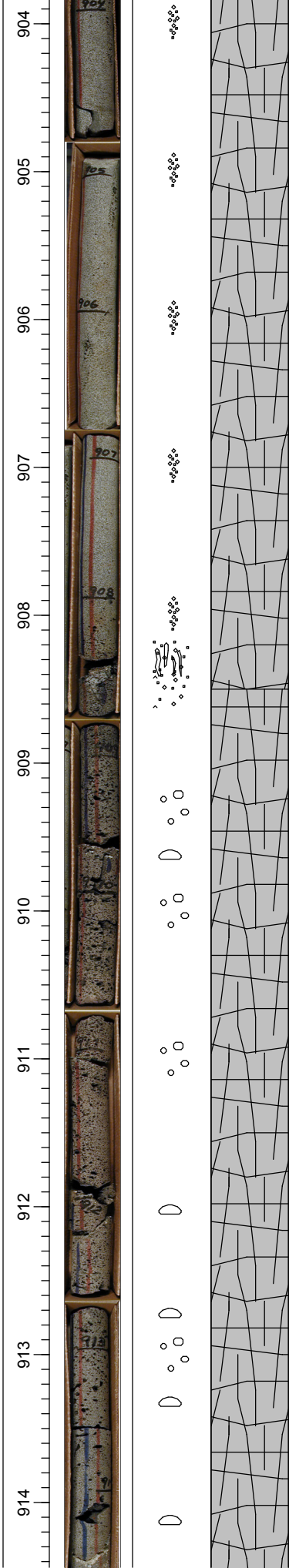






grained vesicular basalt, gray felty groundmass with 1x4 mm plagioclase laths and small olivine microphenocrysts, vesicles increase in size with depth to 893.3 feet then massive to diktytaxitic with vesicle planes and sheets to 895 feet, vesicle columns from 903 to 906.6 feet, pipe vesicles at 908.3 feet, vesicular at base, flow textures at base
Composition: 50% groundmass, 45% acicular plagioclase 5% anhedral to subhedral olivine
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on surfaces and inside some vesicles; very pale orange 10 YR 8/2 clay in vesicles and on fracture surfaces, calcite on fracture surface at 894.3 feet and in a few vesicles





BASALT

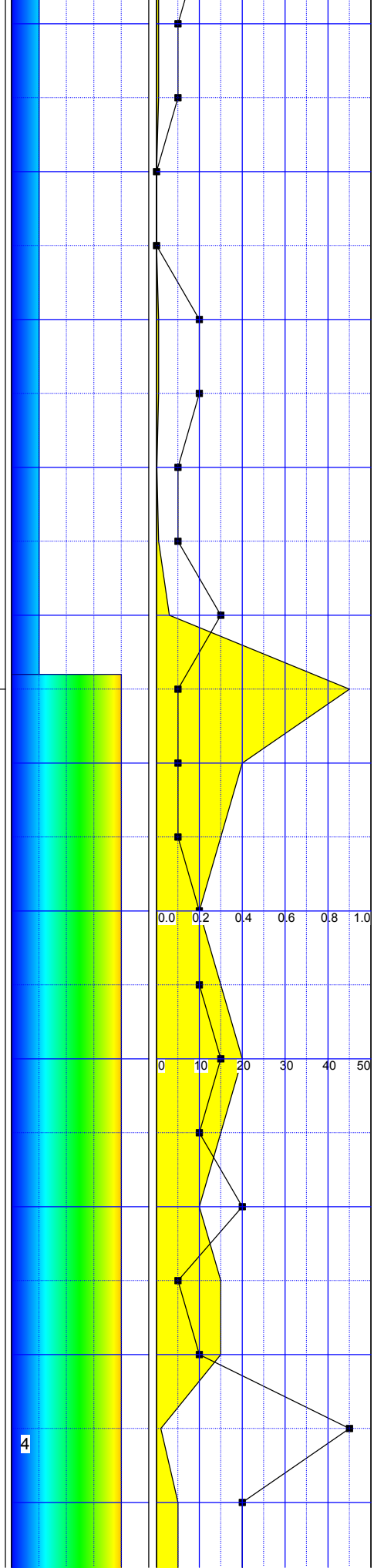
Color: Medium gray N5 to pale red 5 R 6/2 to light medium gray N6 basalt

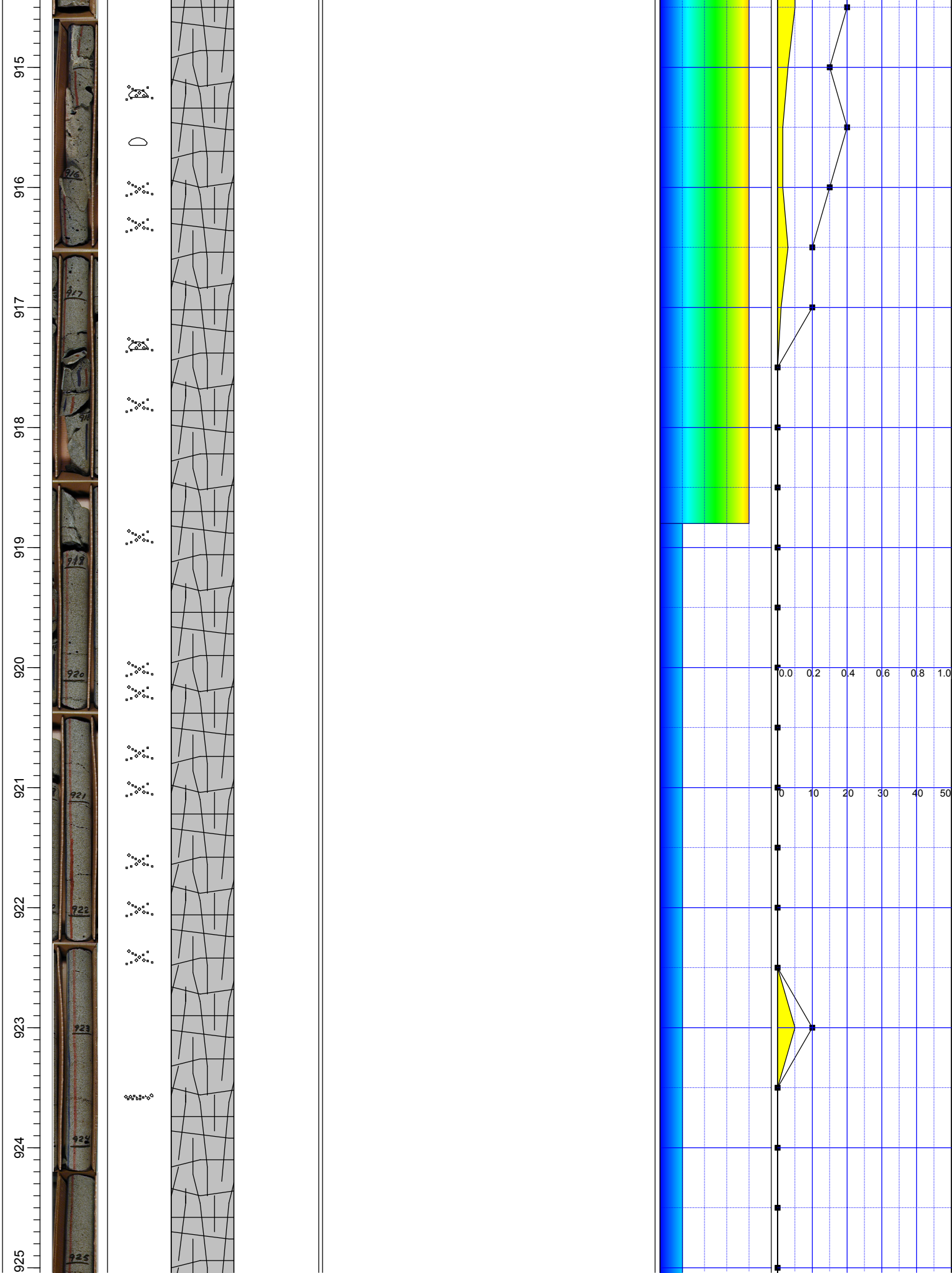
Texture: Aphanitic basalt, gray felty groundmass with plagioclase and olivine microphenocrysts, vesicles increase in size with depth to 916 feet then massive with megavesicles, vesicle planes and sheets to 929 feet, massive to 934.3 feet, vesicle columns from 934.3 to 935 feet, vesicular at base, flow textures at base

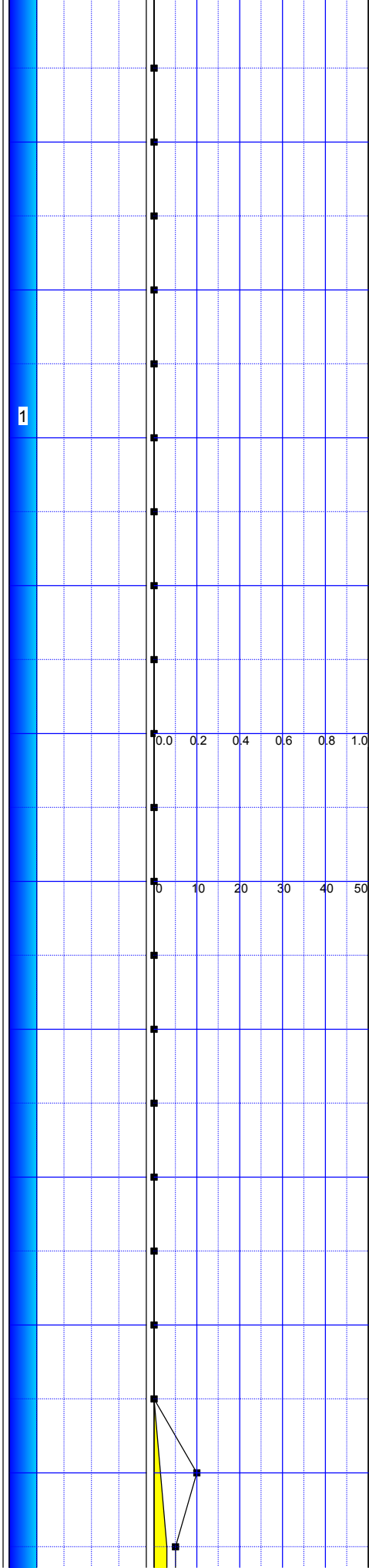
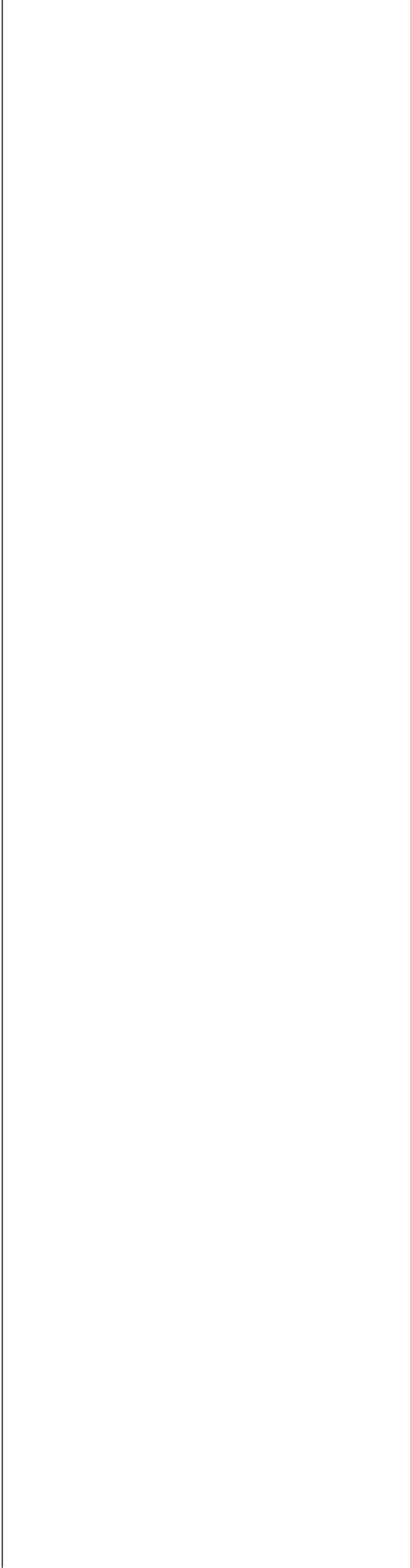
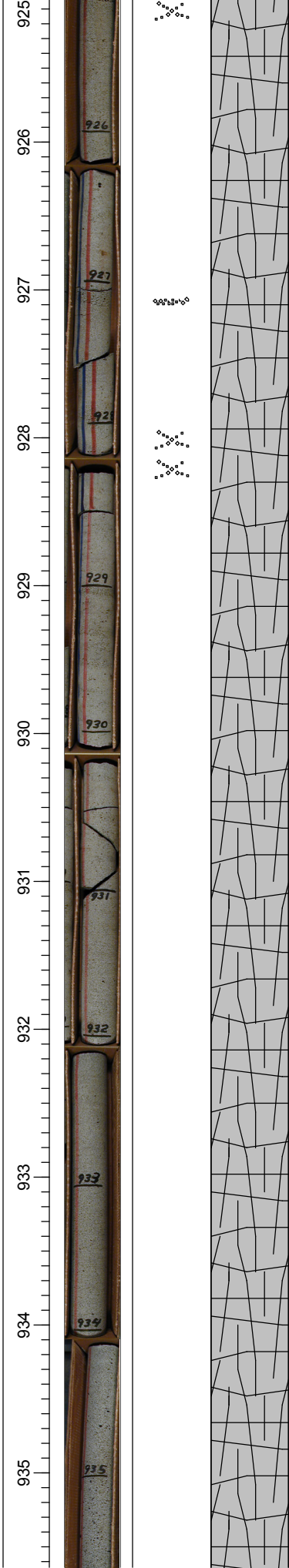
Composition: 50% groundmass, 45% acicular plagioclase 5% anhedral to subhedral olivine
Magnetic

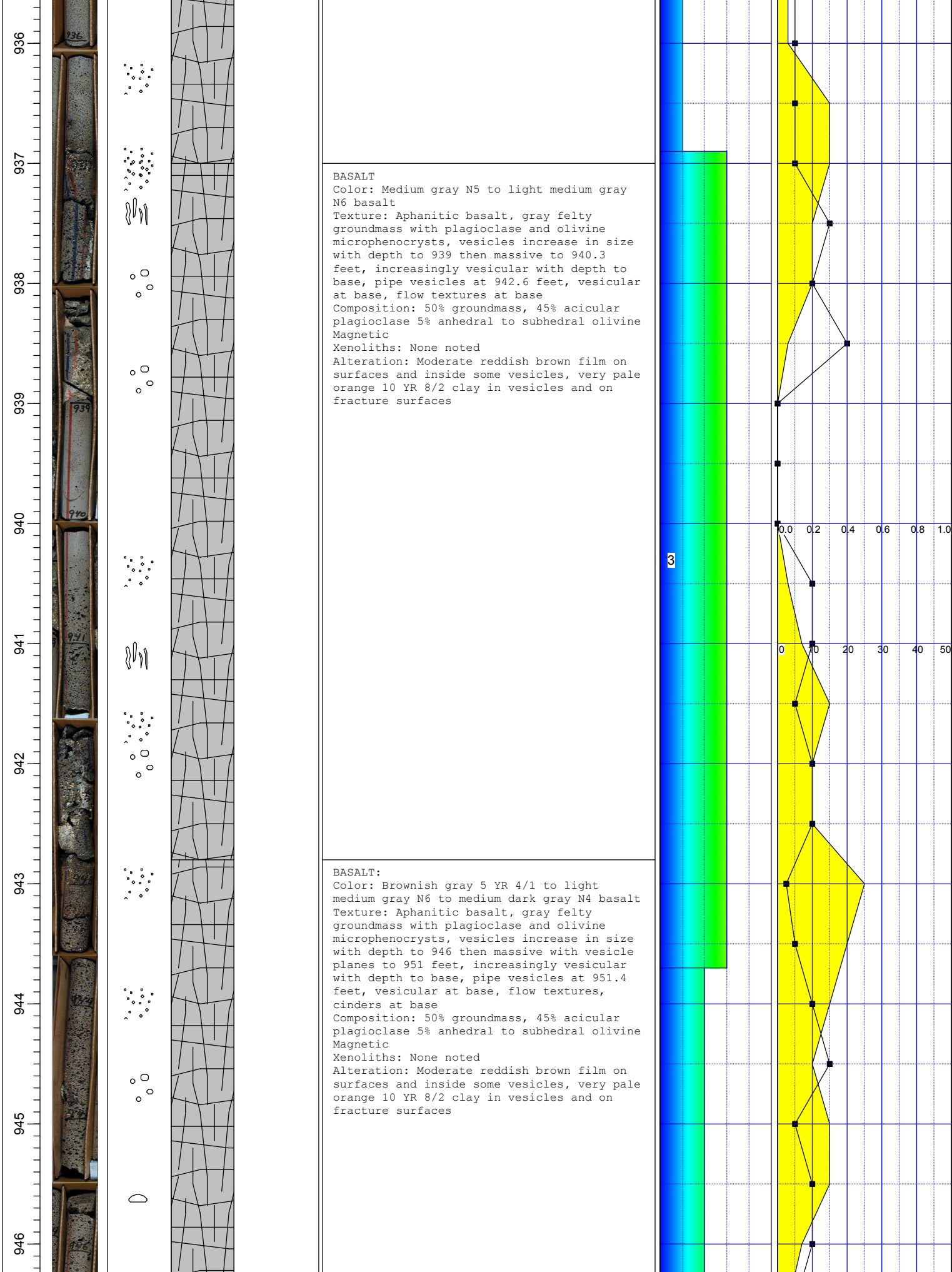
Xenoliths: None noted

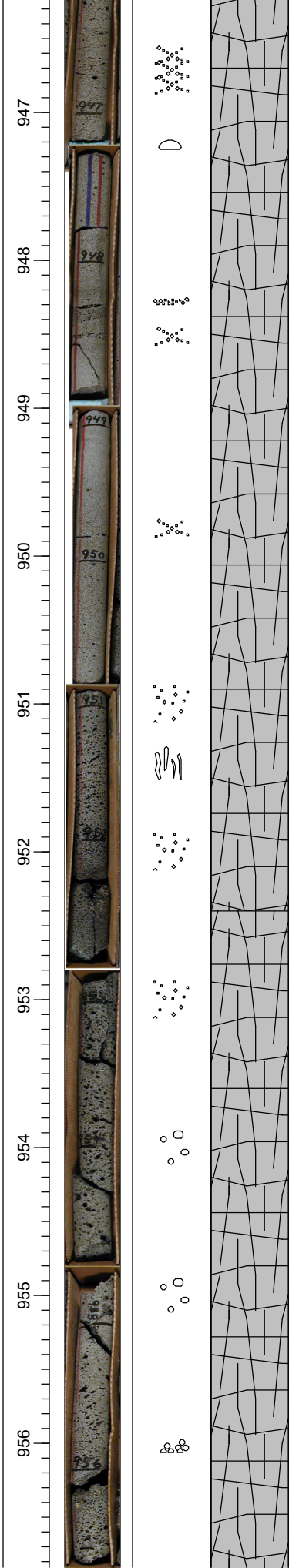
Alteration: Moderate reddish brown film on surfaces and inside some vesicles, very pale orange 10 YR 8/2 clay in vesicles and on fracture surfaces



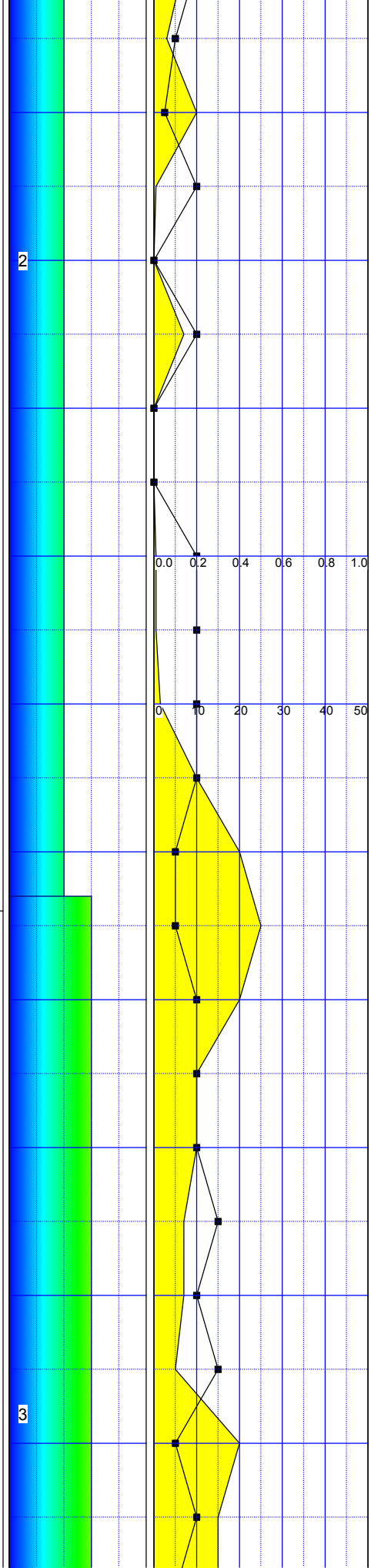


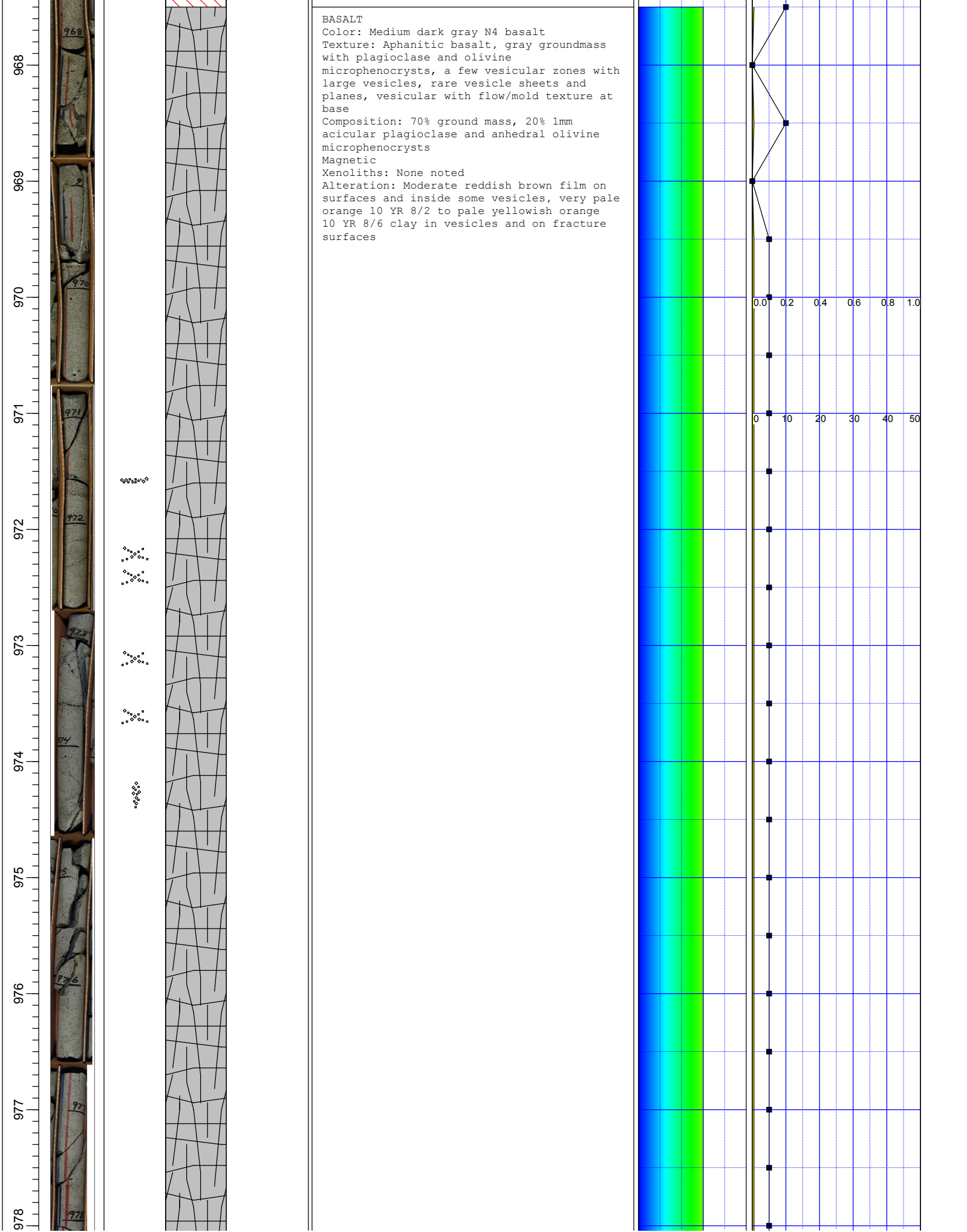




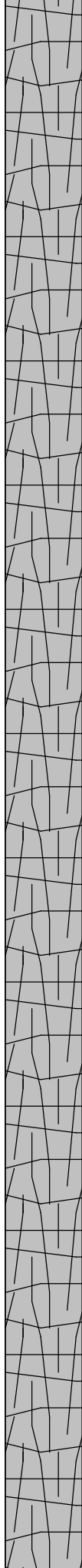


BASALT
Color: Medium dark gray N4 basalt
Texture: Aphanitic vesicular basalt, gray groundmass with plagioclase and olivine phenocrysts, phenocryst size and percentage of phenocrysts decreases with increasing depth, vesicular at base, flow textures, cinders at base
Composition: 50% acicular plagioclase, 40% groundmass, 10% anhedral to subhedral olivine, near base composition is 80% ground mass, 18% 1 mm acicular plagioclase microphenocrysts and 2% olivine microphenocrysts, olivines display reddish rims
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on surfaces and inside some vesicles, very pale orange 10 YR 8/2 to pale yellowish orange 10 YR 8/6 clay in vesicles and on fracture surfaces



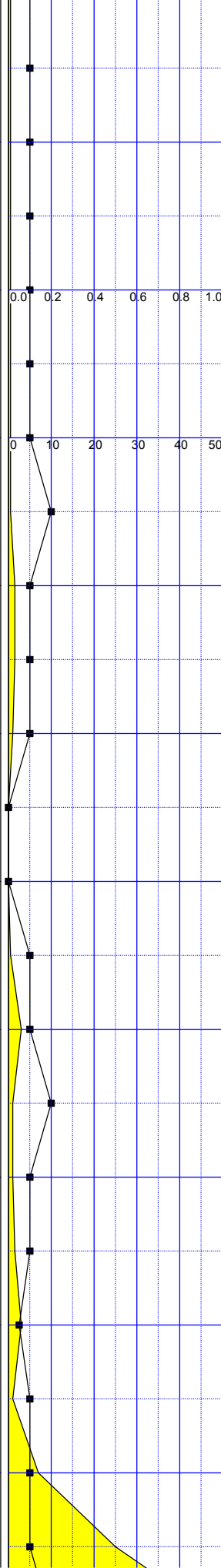


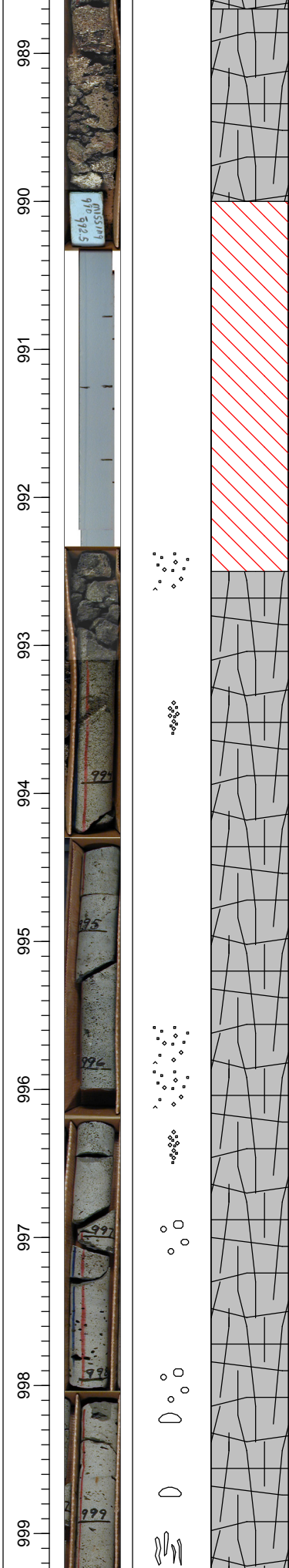
978
979
980
981
982
983
984
985
986
987
988



BASALT
Color: Grayish red 5R 4/2 basalt

3

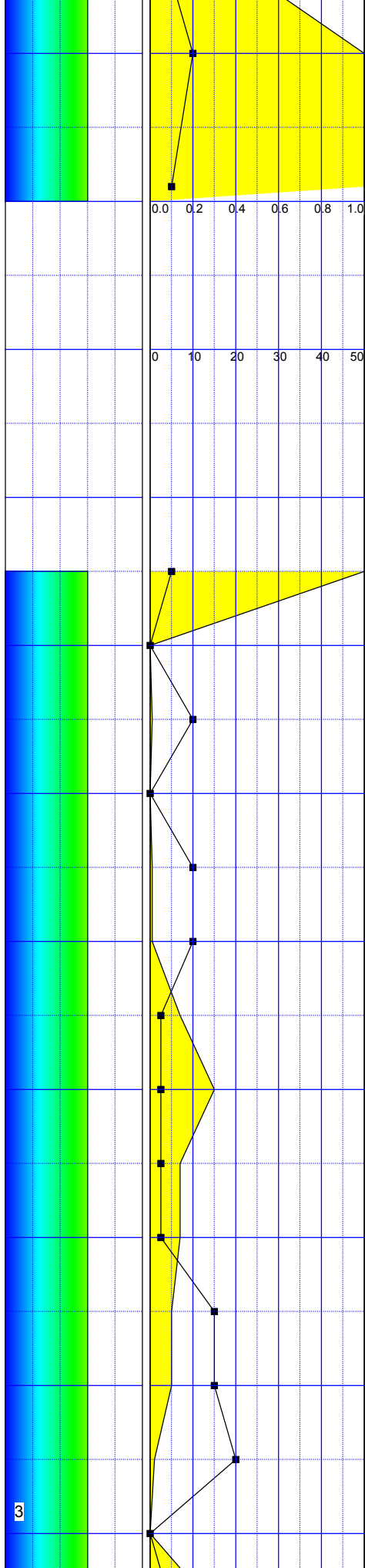


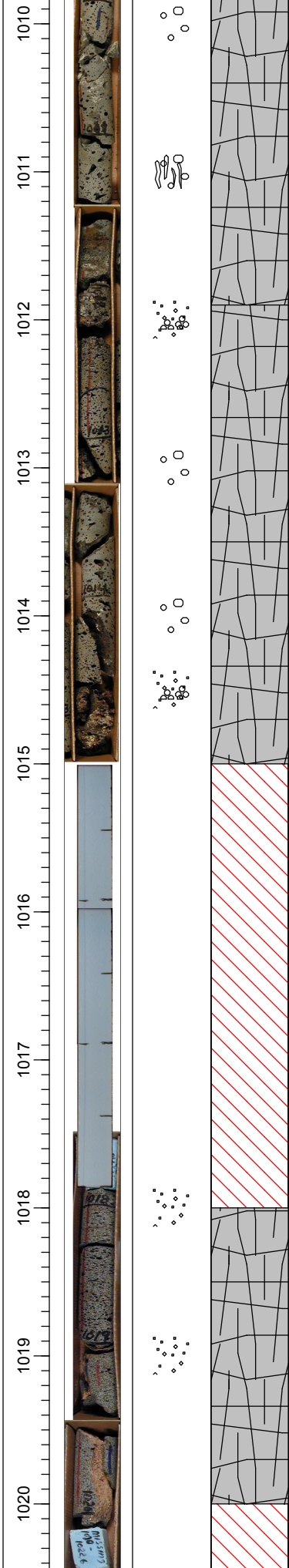


Texture: Aphanitic basalt scoria, gray groundmass with plagioclase microphenocrysts
Composition: 90% ground mass, 10% acicular plagioclase
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on surfaces and inside some vesicles, white to very pale orange 10 YR 8/2 clay, in vesicles and on fracture surfaces

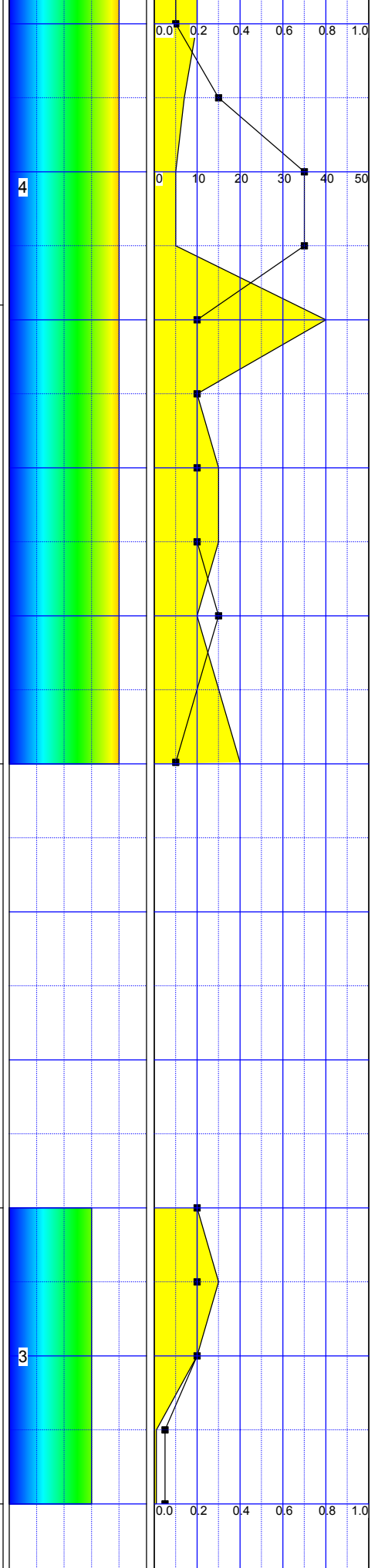
MISSING INTERVAL
Core missing, video log shows large void

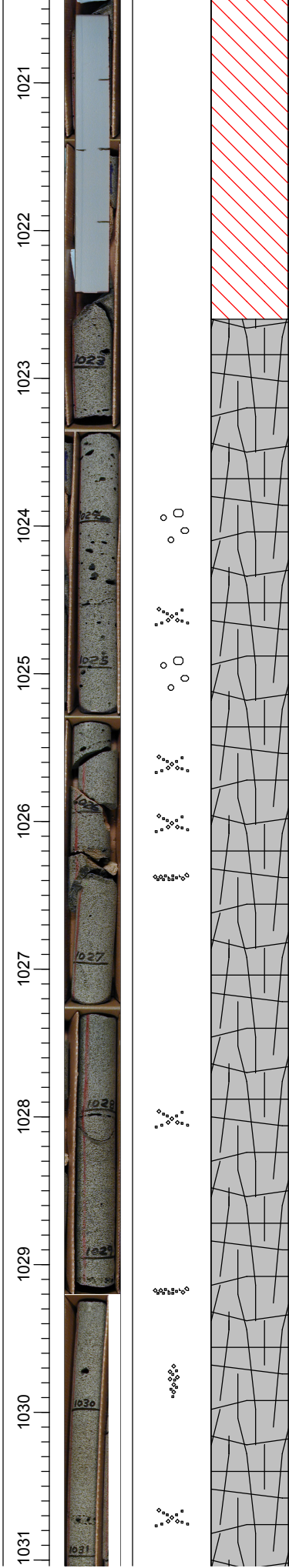
BASALT
Color: Medium gray N5 basalt
Texture: Aphanitic basalt, gray groundmass with plagioclase microphenocrysts, some large vesicles, flow banding at 1000.3 feet, flow/mold and rubble at base
Composition: 95% ground mass, 5% acicular plagioclase
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on surfaces and inside some vesicles, white to very pale orange 10 YR 8/2 clay, in vesicles and on fracture surfaces, one large vesicle filled with white non-calcite microcrystalline mineral with glassy luster



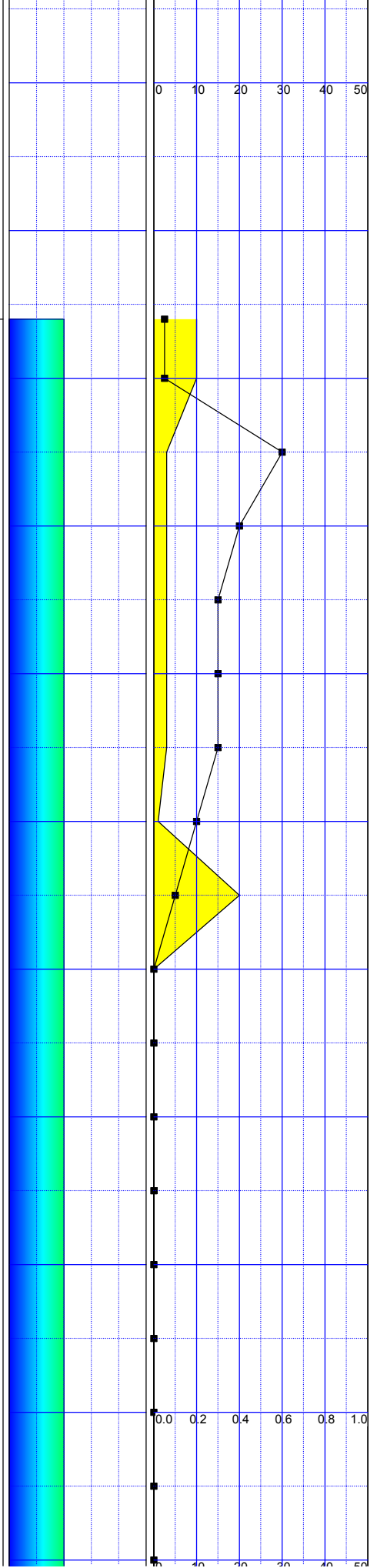


<p>BASALT</p> <p>Color: Medium gray N5 basalt</p> <p>Texture: Aphanitic basalt, gray groundmass with plagioclase microphenocrysts, some large vesicles, flow banding at 1000.3 feet, pipe vesicles at 1014 feet, agglomerated spatter at base</p> <p>Composition: 95% ground mass, 5% acicular plagioclase</p> <p>Magnetic</p> <p>Xenoliths: None noted</p> <p>Alteration: Moderate reddish brown film on surfaces and inside some vesicles, white to very pale orange 10 YR 8/2 clay, in vesicles and on fracture surfaces, calcite fills a few vesicles</p>
<p>MISSING INTERVAL</p> <p>Core missing, no more information</p>
<p>BASALT</p> <p>Color: Medium gray N5 basalt</p> <p>Texture: Aphanitic vesicular basalt, gray groundmass with plagioclase microphenocrysts</p> <p>Composition: 65% ground mass, 30% acicular plagioclase 5% anhedral olivine</p> <p>Magnetic</p> <p>Xenoliths: None noted</p> <p>Alteration: Moderate reddish brown film on surfaces and inside some vesicles, white to very pale orange 10 YR 8/2 clay, in vesicles at top, moderate reddish brown film on surfaces and inside some vesicles, dark yellowish orange 10 YR 6/6 clay, in vesicles and on fracture surfaces</p>
<p>MISSING INTERVAL</p> <p>Core missing, no more information</p>

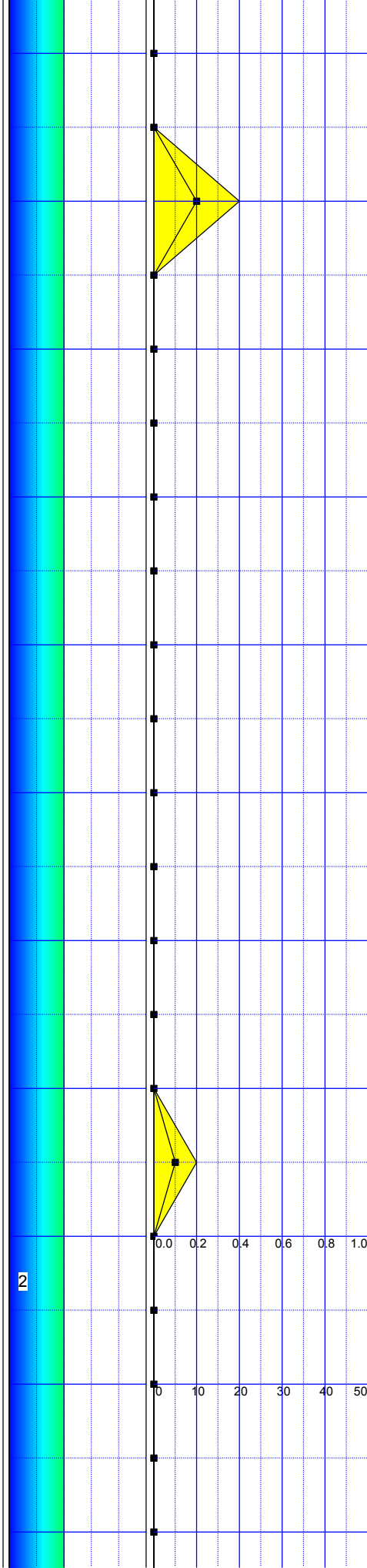
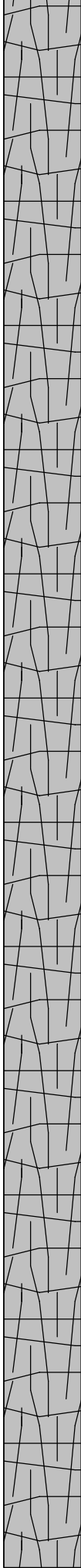


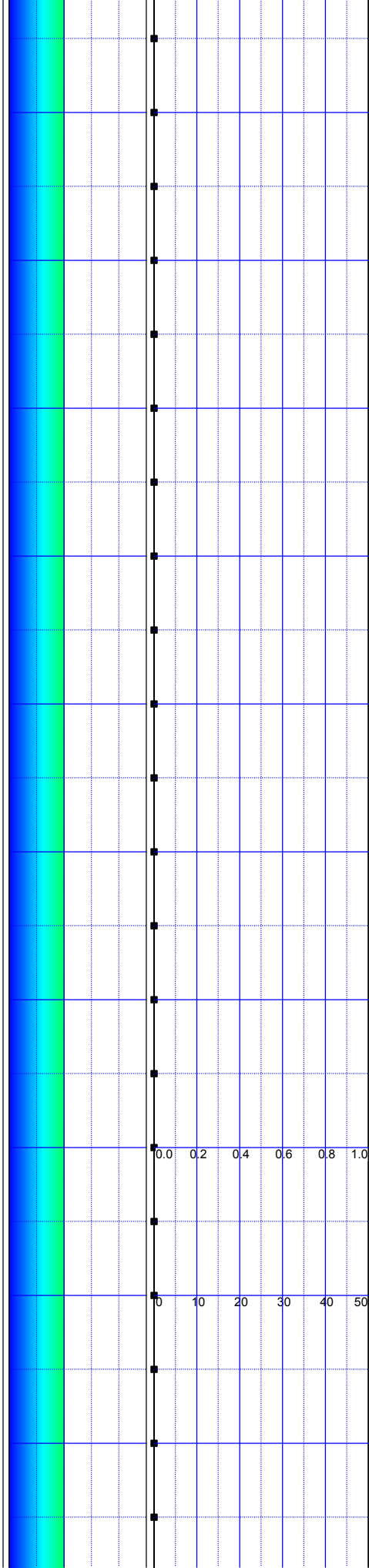
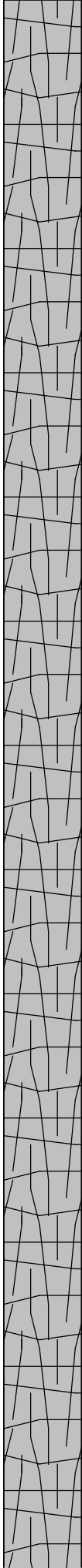
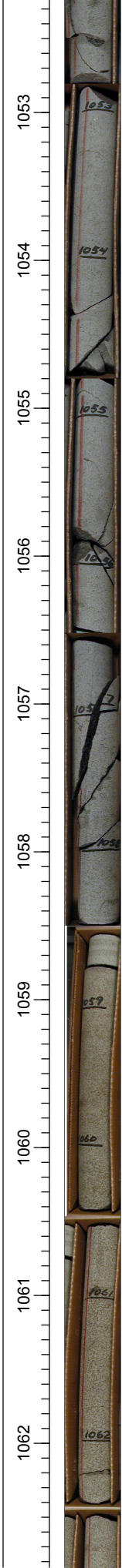


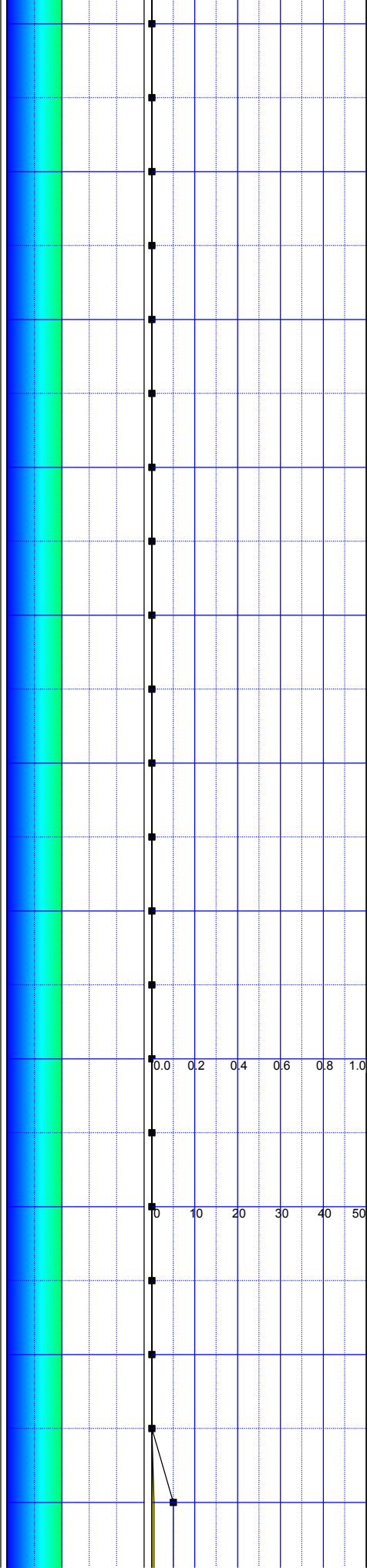
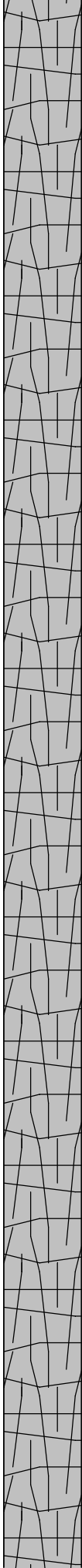
BASALT
Color: Medium gray N5 basalt
Texture: Aphanitic basalt, gray groundmass with plagioclase microphenocrysts, ranges from highly vesicular to massive, massive with large vesicles to 1025.3 feet, massive with vesicle sheets and planes to 1051 feet, massive to 1072.7 feet, massive with vesicle columns to 1077.8 feet, vesicular at base, tabular pyroxene and large (1 mm x 5 mm) plagioclase phenocrysts in vesicle sheets, green olivine phenocrysts to 1049 feet, but below 1049 feet, olivines show reddish rims; flow/mold texture at base
Composition: 50% acicular plagioclase microphenocrysts, 40% gray groundmass, 10% anhedral to subhedral olivine microphenocrysts
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown film on surfaces and inside some vesicles, white to very pale orange 10 YR 8/2 clay, in vesicles and on fracture surfaces

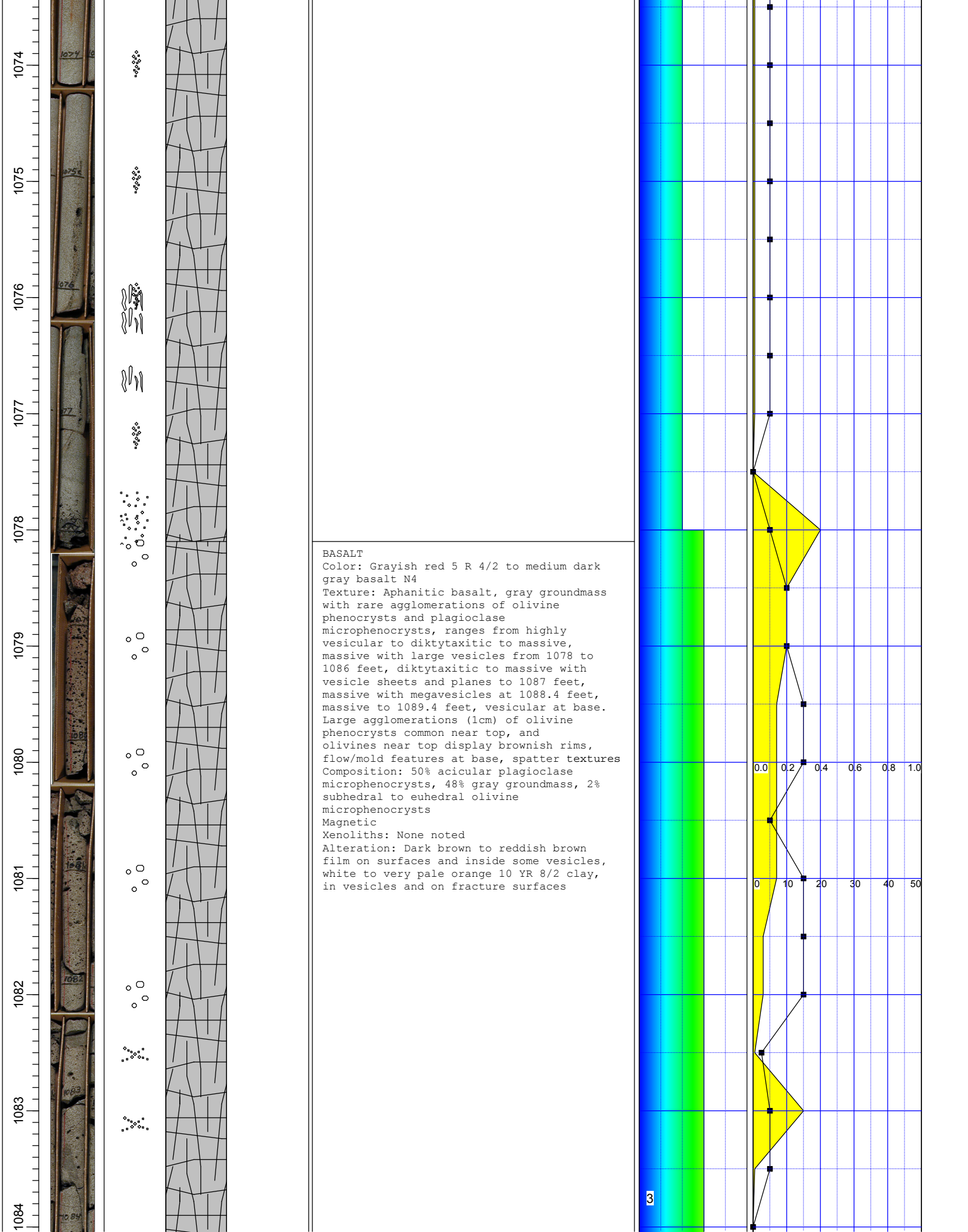


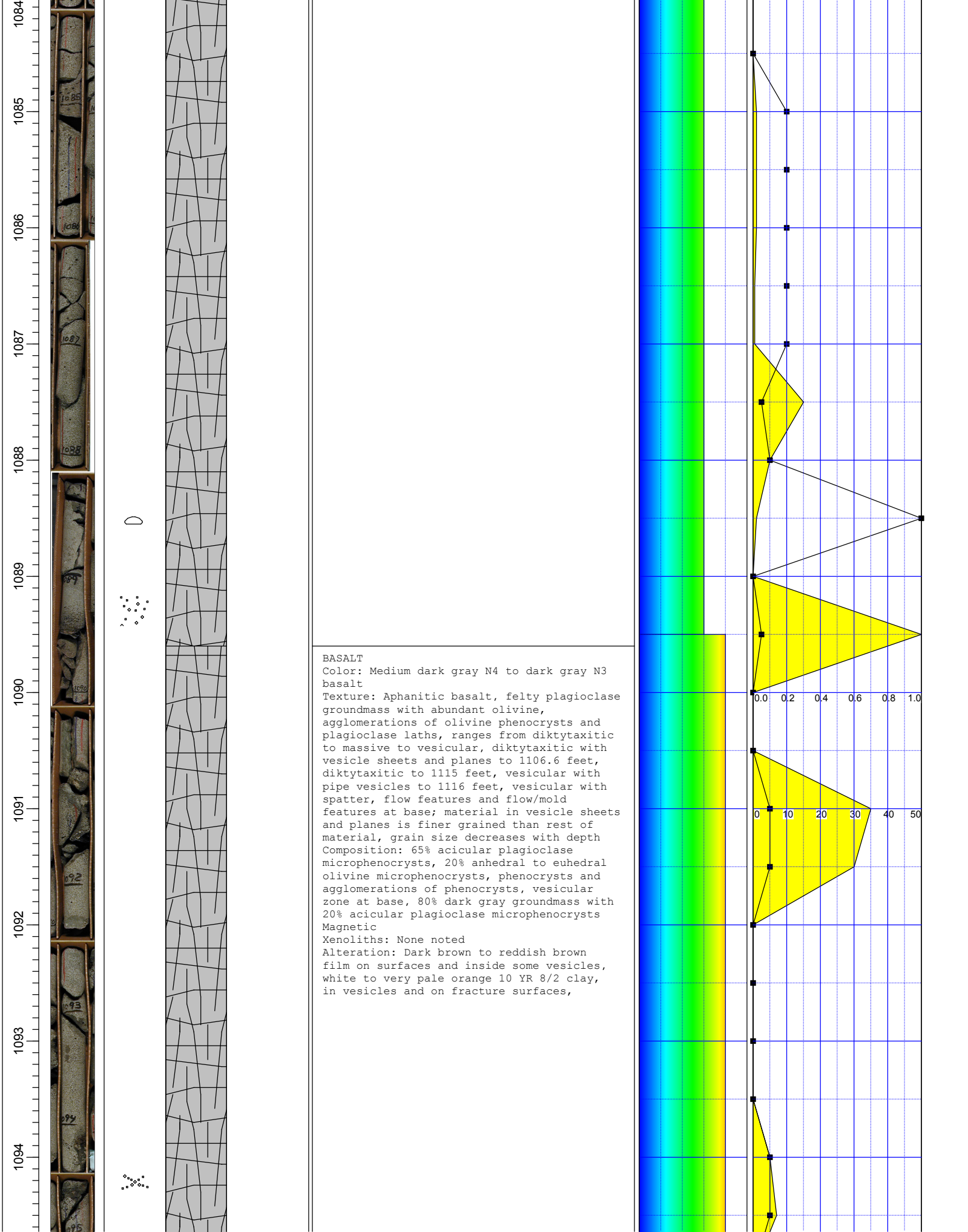
1042
1043
1044
1045
1046
1047
1048
1049
1050
1051
1052

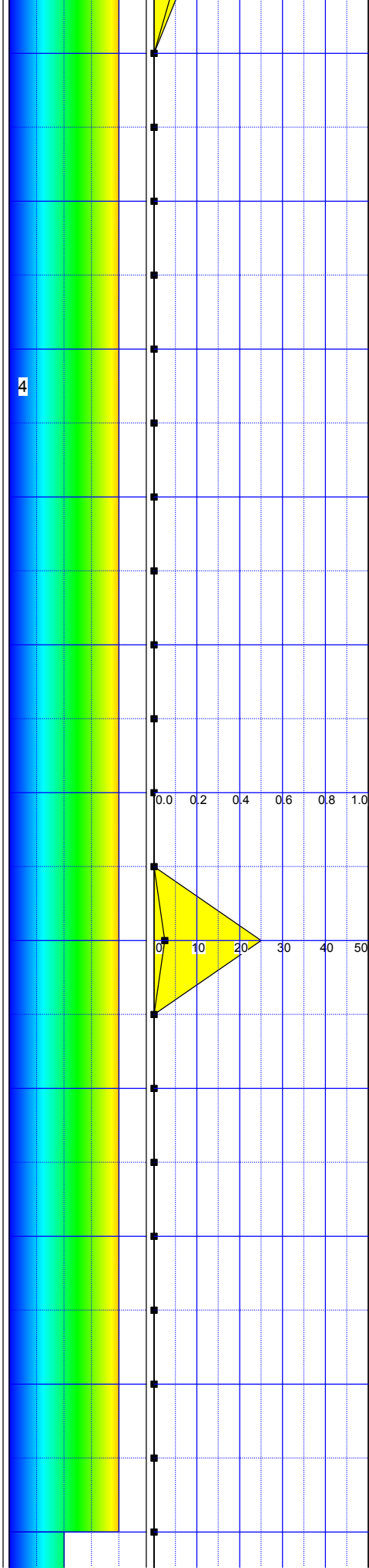
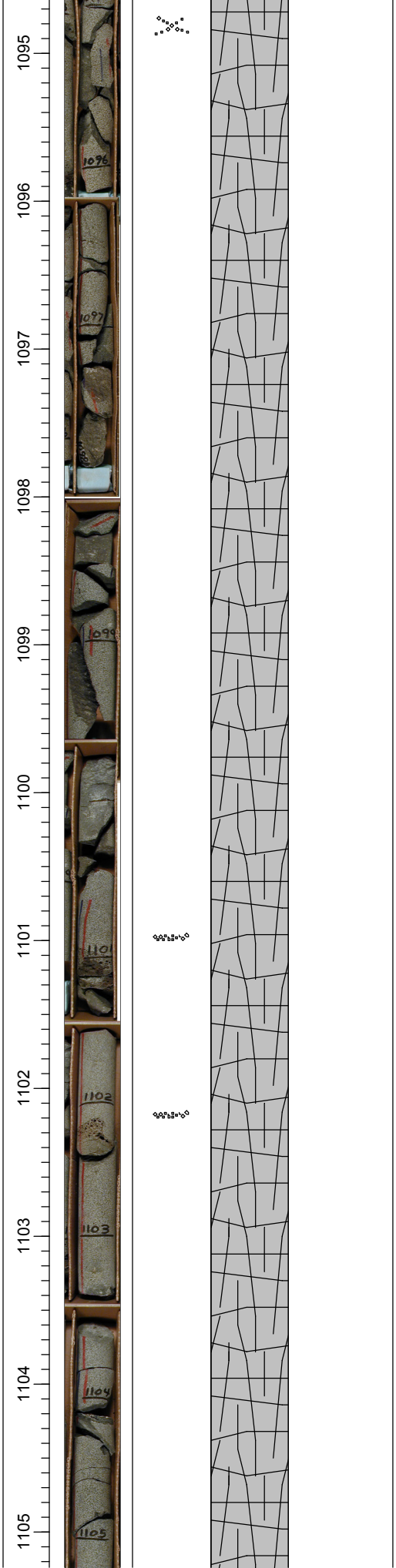


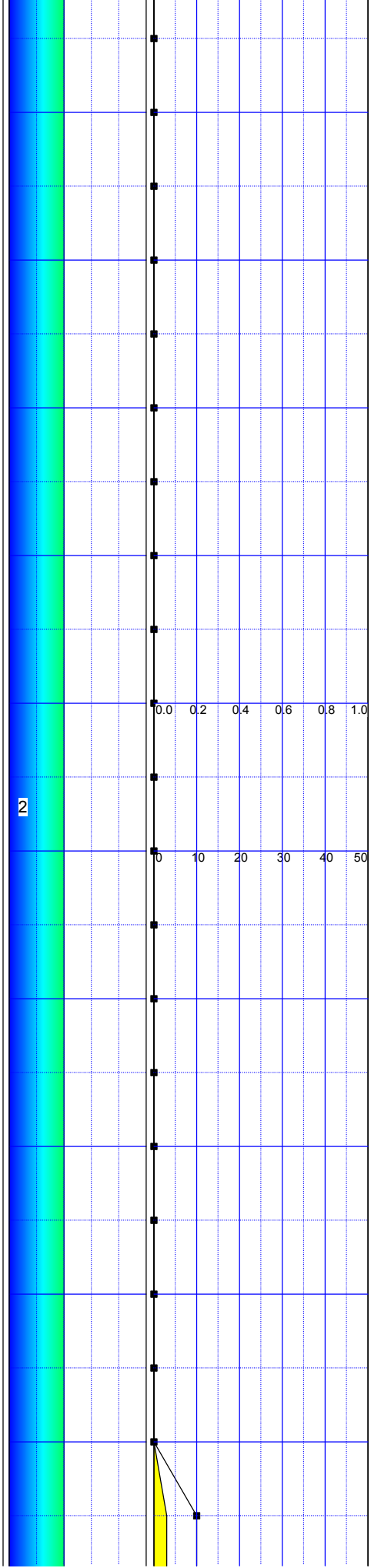
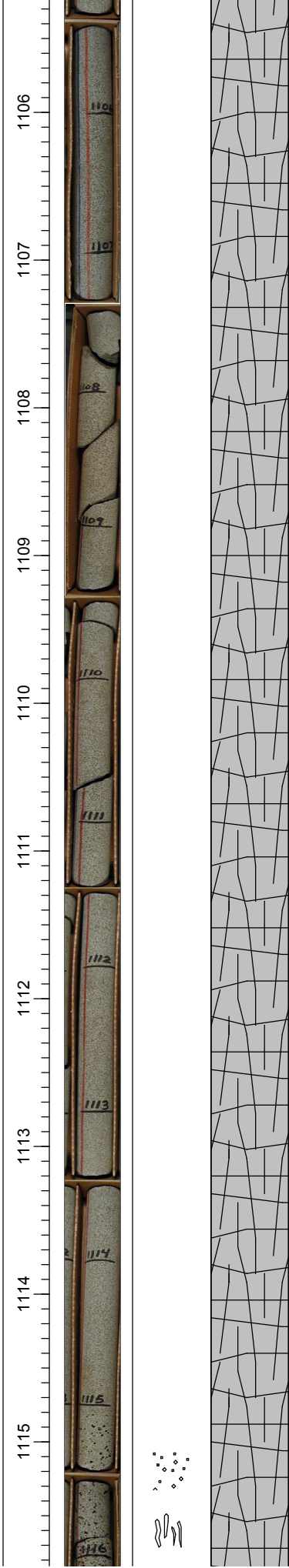


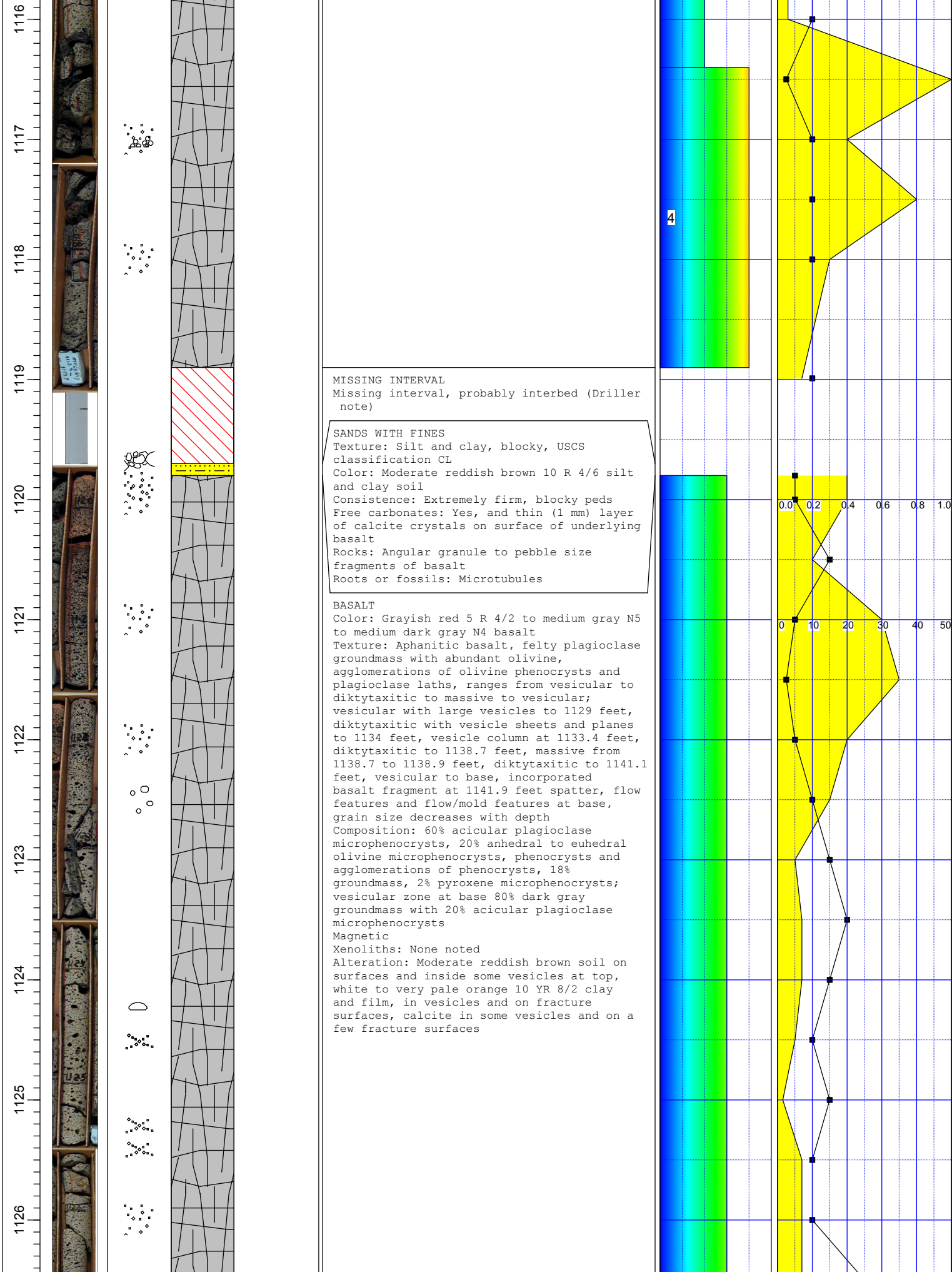


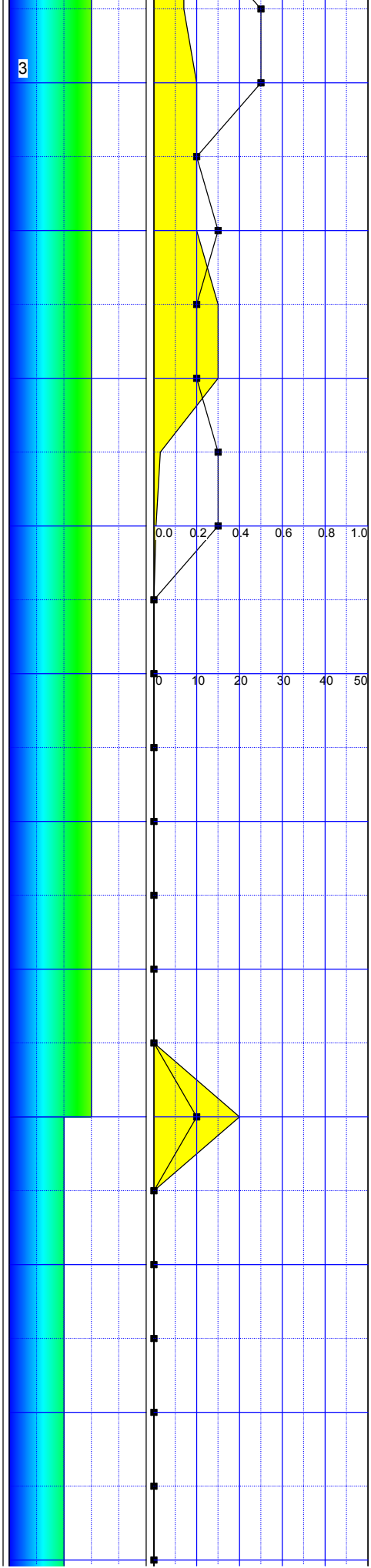
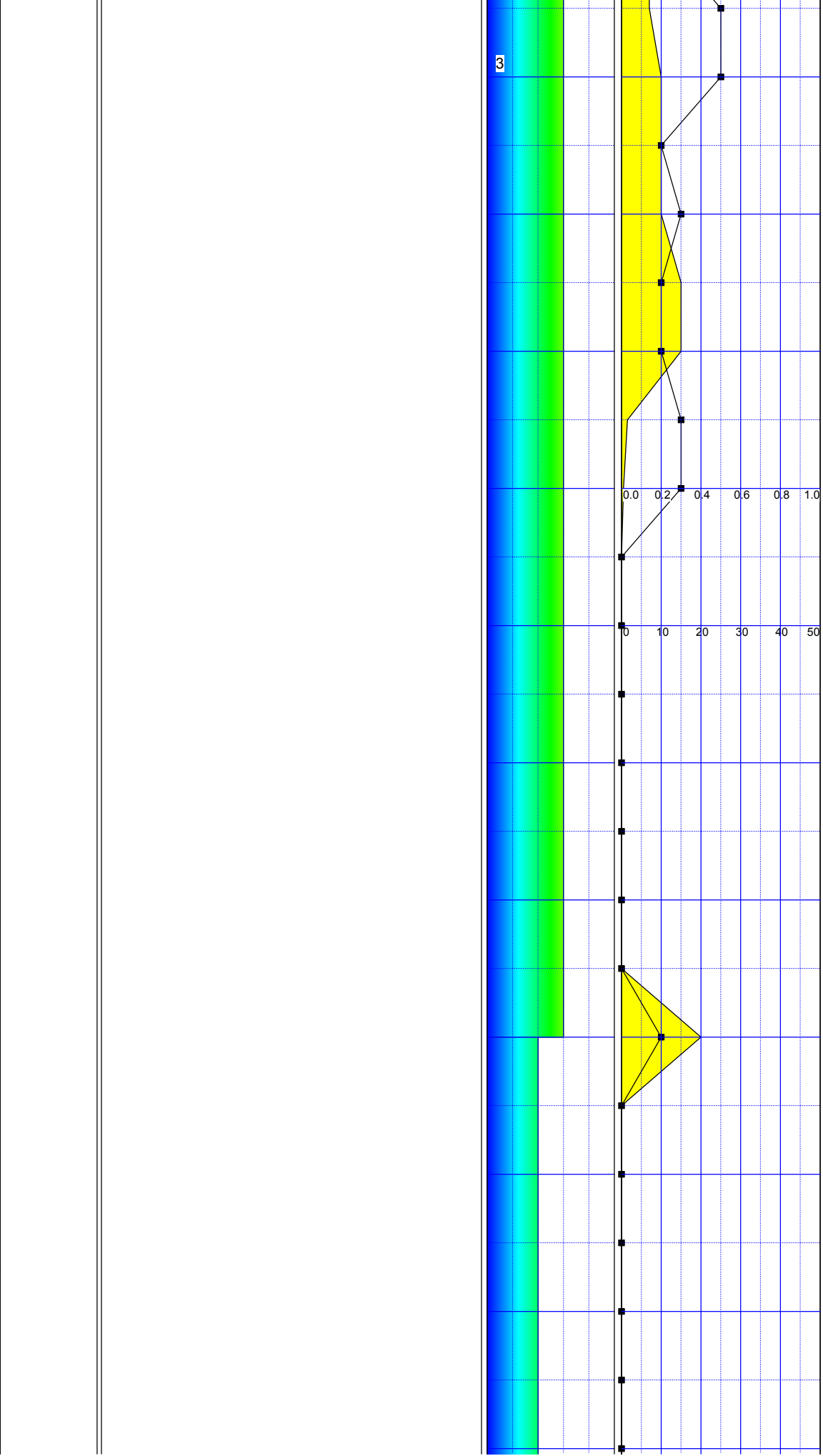
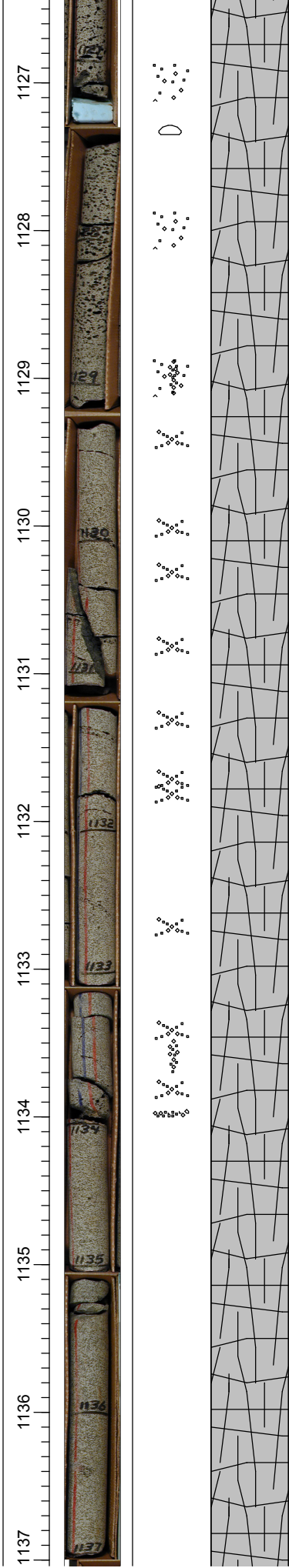


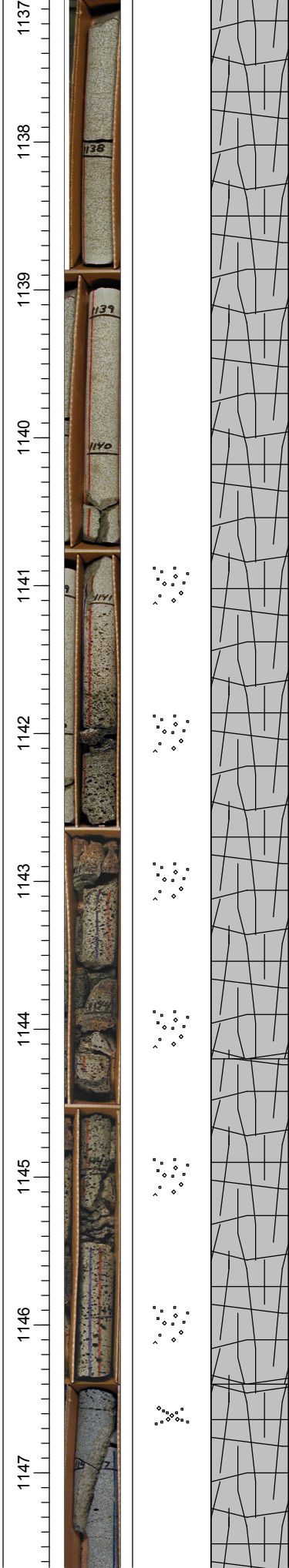






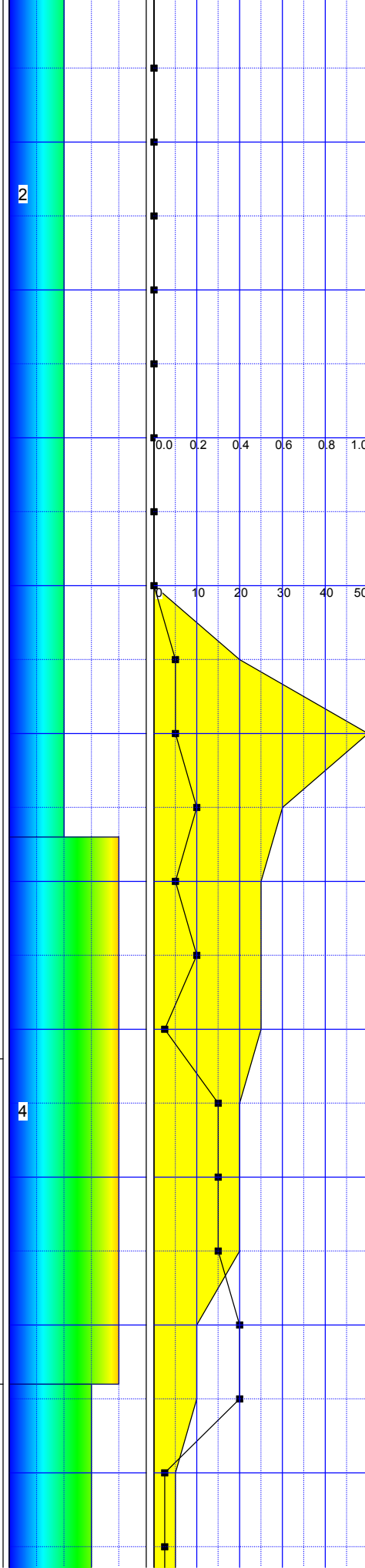


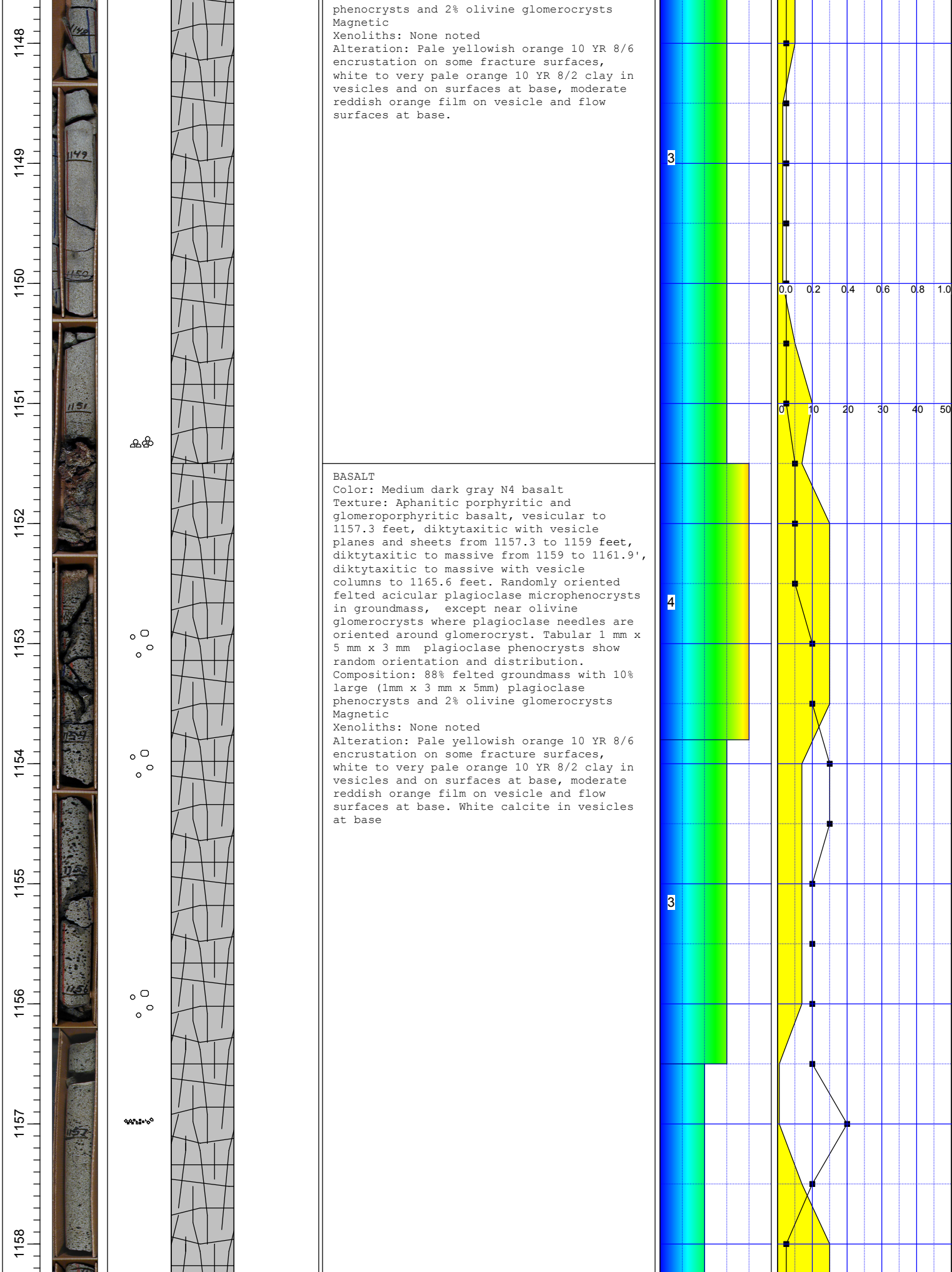


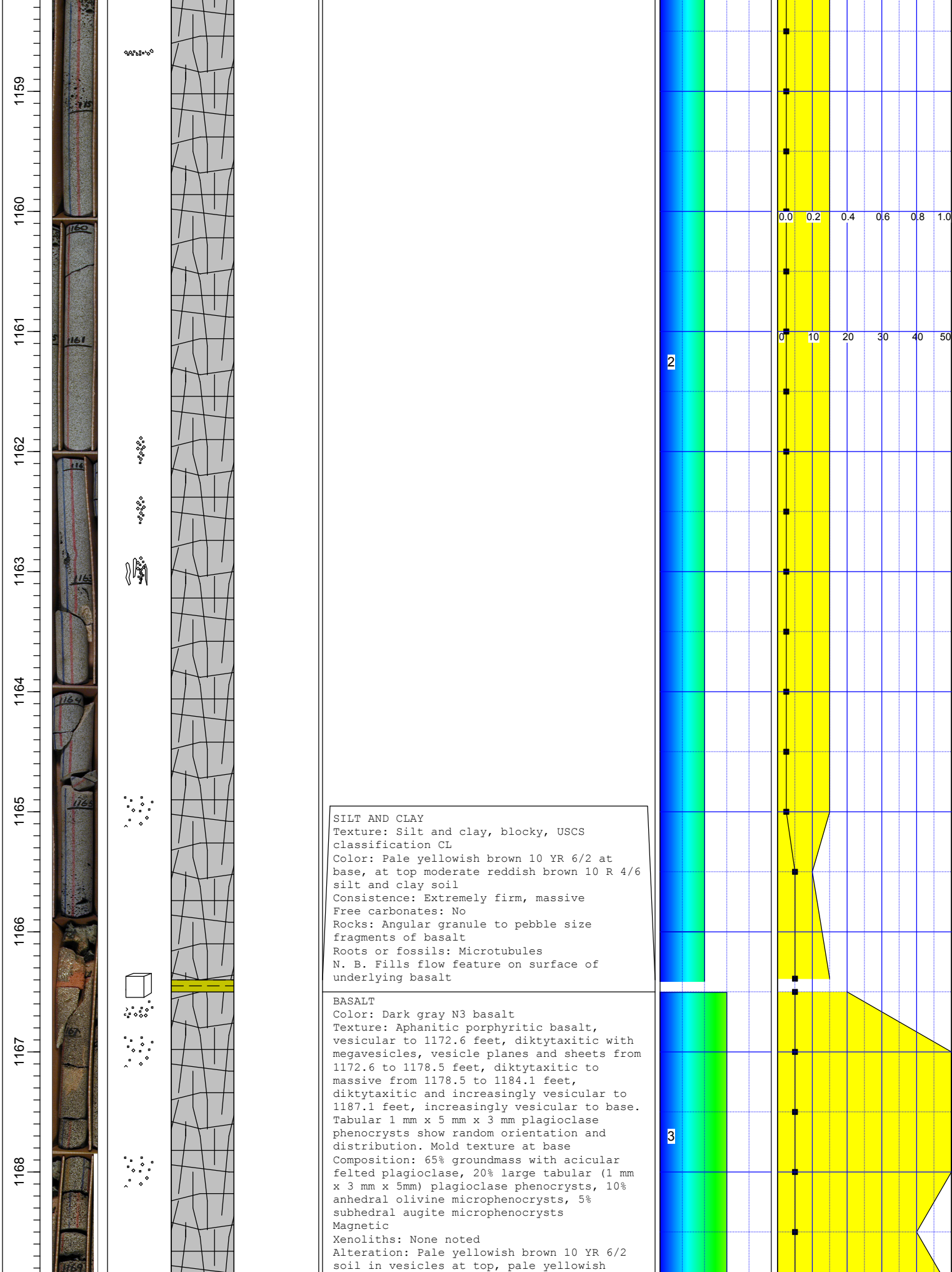


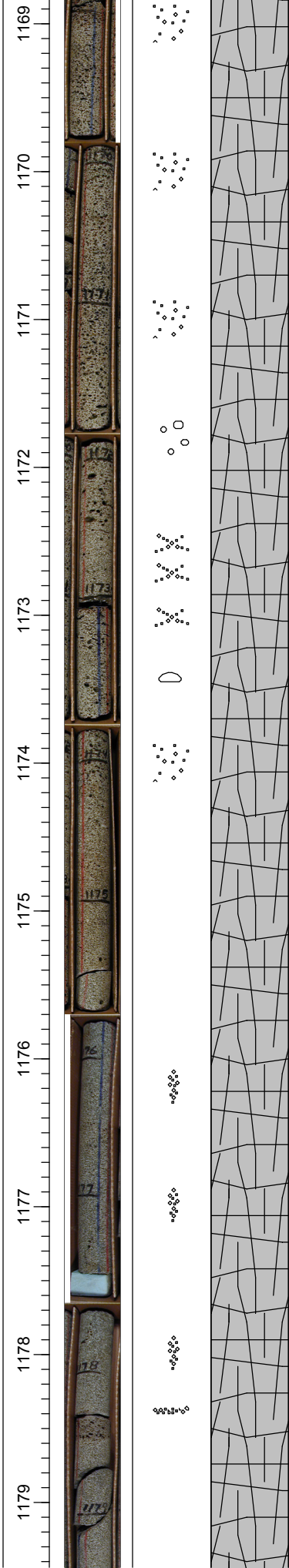
BASALT
Color: Medium gray N5 to medium dark gray N4 basalt
Texture: Aphanitic vesicular basalt
Composition: 80% dark gray groundmass with 20% acicular plagioclase microphenocrysts at top, felty plagioclase with rare olivine at base
Magnetic
Xenoliths: None noted
Alteration: Moderate reddish brown soil on surfaces and inside some vesicles

BASALT
Color: Medium dark gray N4 basalt
Texture: Aphanitic diktytaxitic porphyritic and glomeroporphyritic basalt. Randomly oriented felted plagioclase in groundmass, except near olivine glomerocrysts where plagioclase needles are oriented around glomerocryst. Large plagioclase crystals show random orientation and distribution.
Composition: 80% felted groundmass with 20% large (1 mm x 5 mm) plagioclase

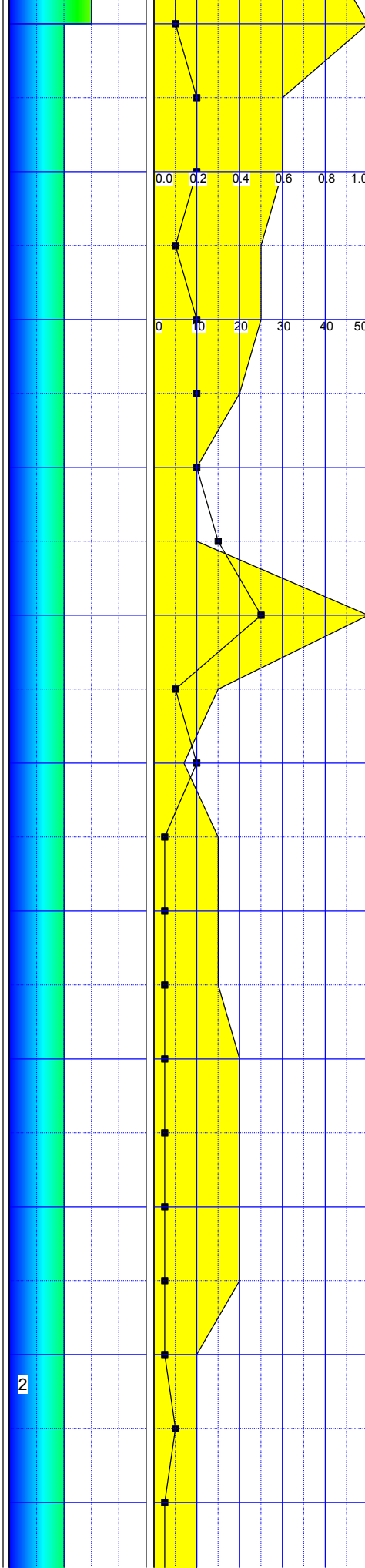


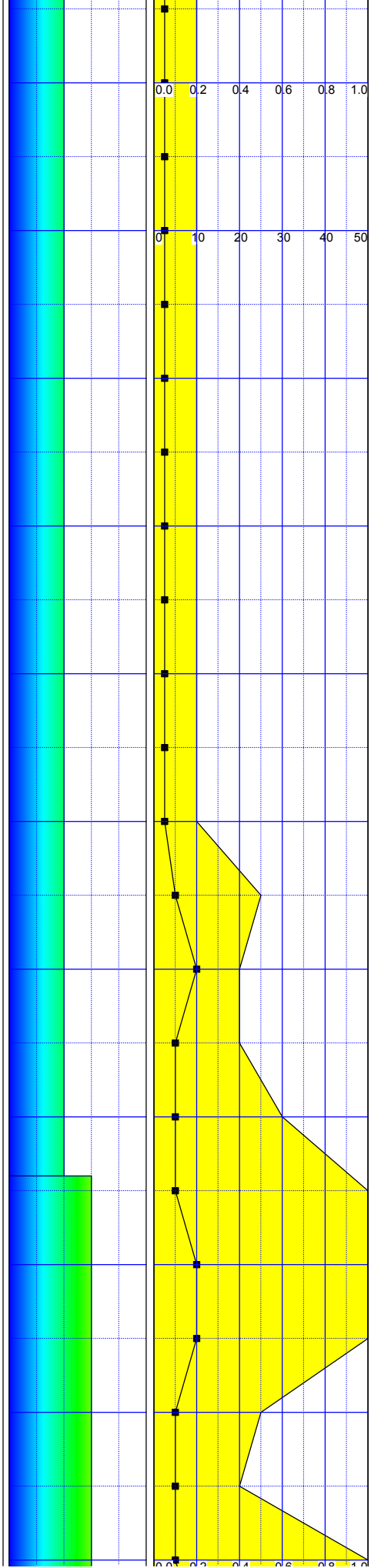
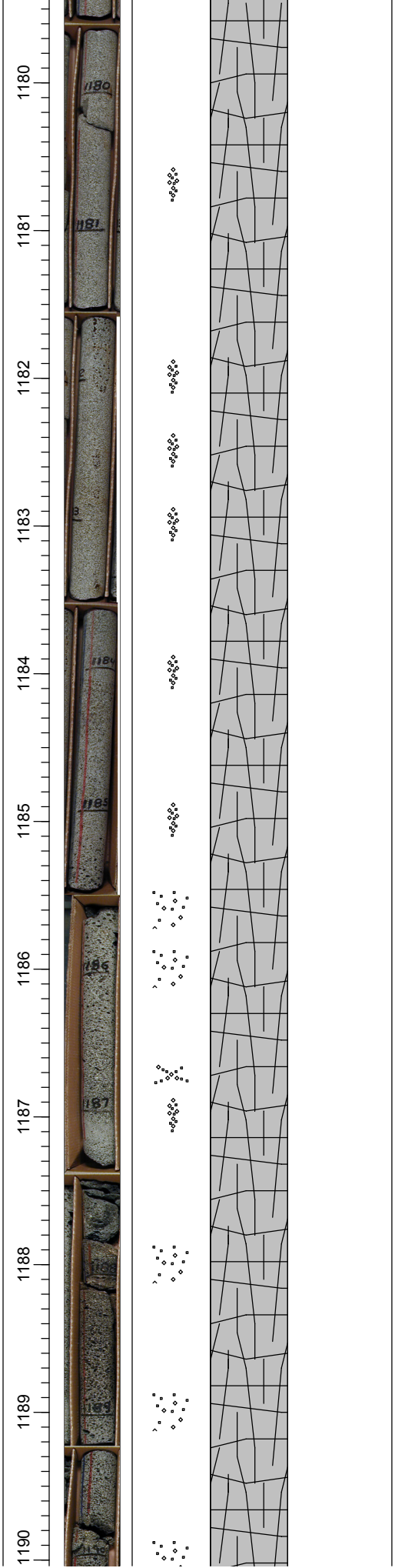


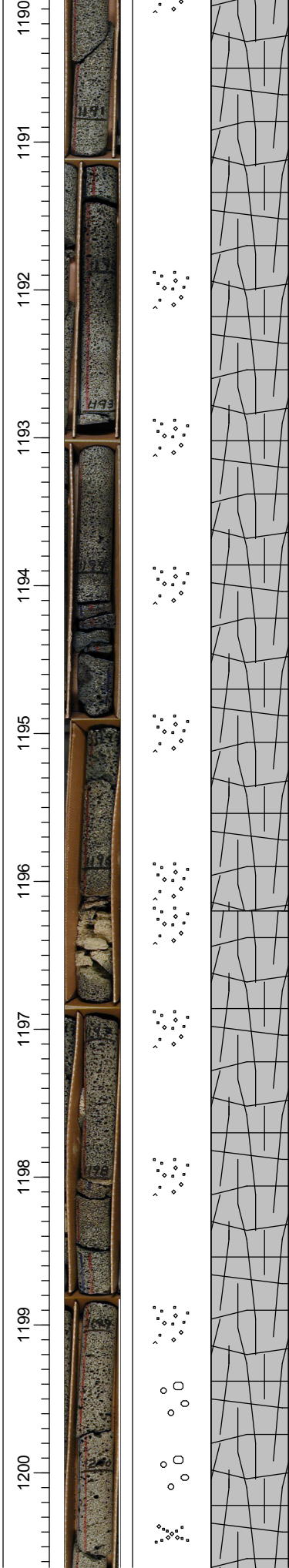




orange 10 YR8/6 encrustation some fracture surfaces and in some vesicles, white to very pale orange 10 YR 8/2 clay in vesicles and on surfaces at base, moderate reddish orange soil on vesicles and flow surfaces at top; moderate reddish orange film on mold surface at base, white calcite in some large vesicles; soft, white chalky luster, acicular to botryoidal mineral in some vesicles

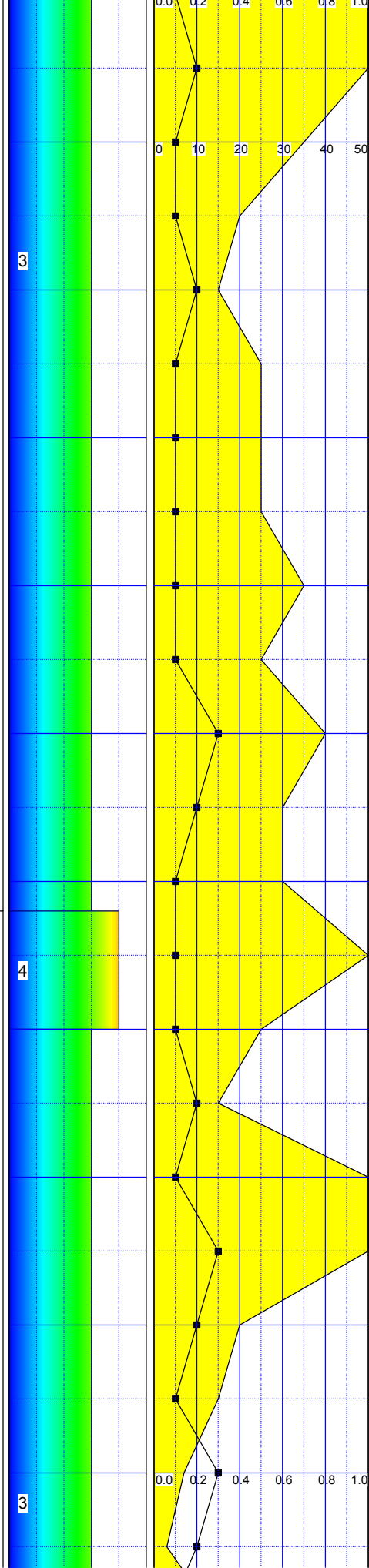


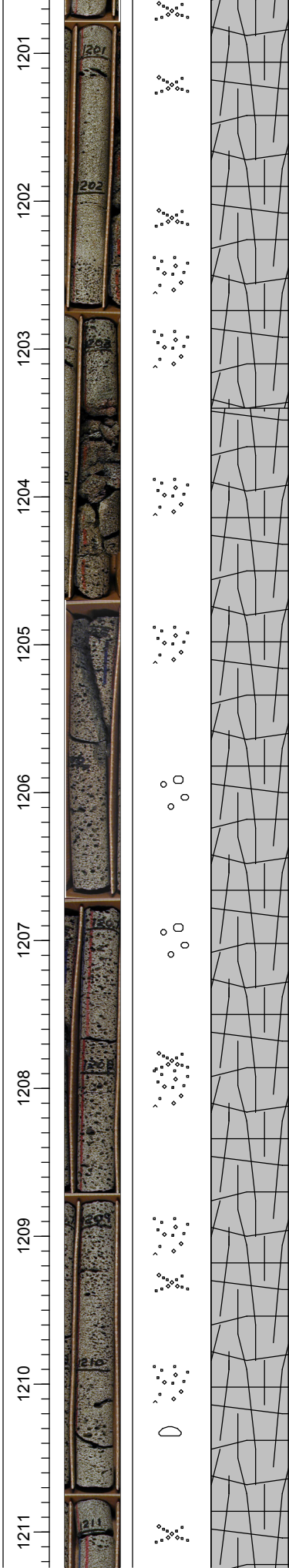




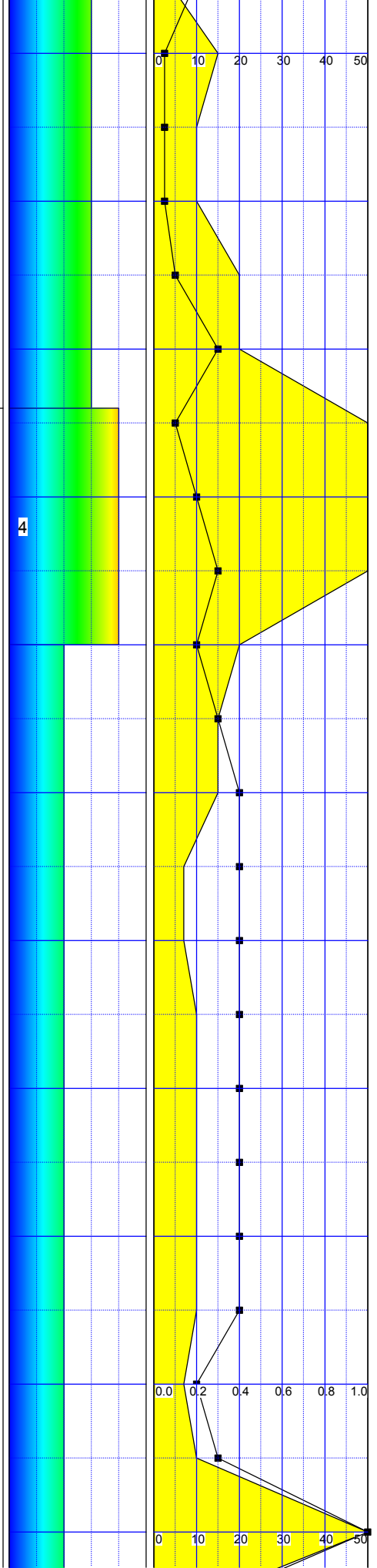
BASALT

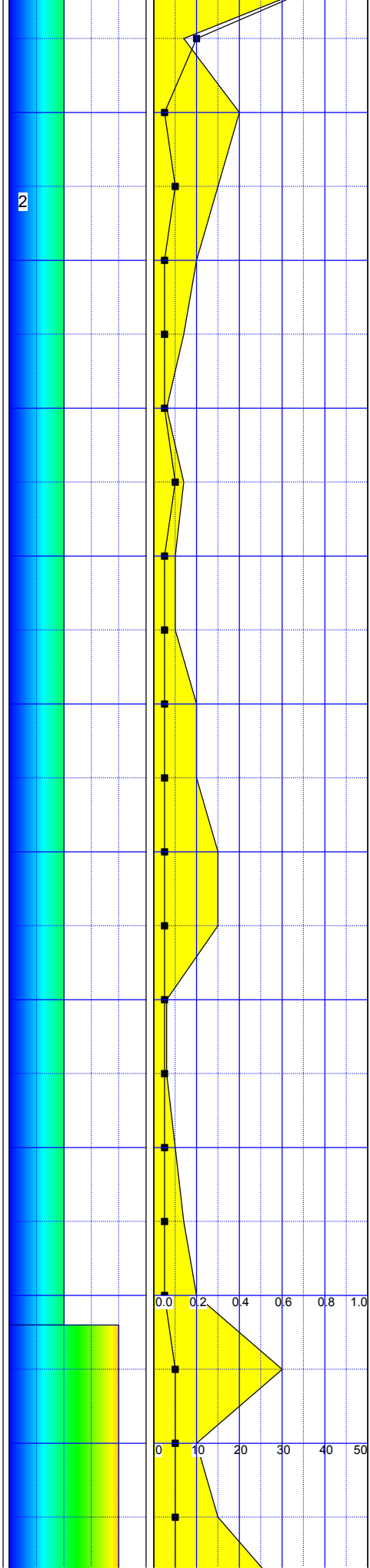
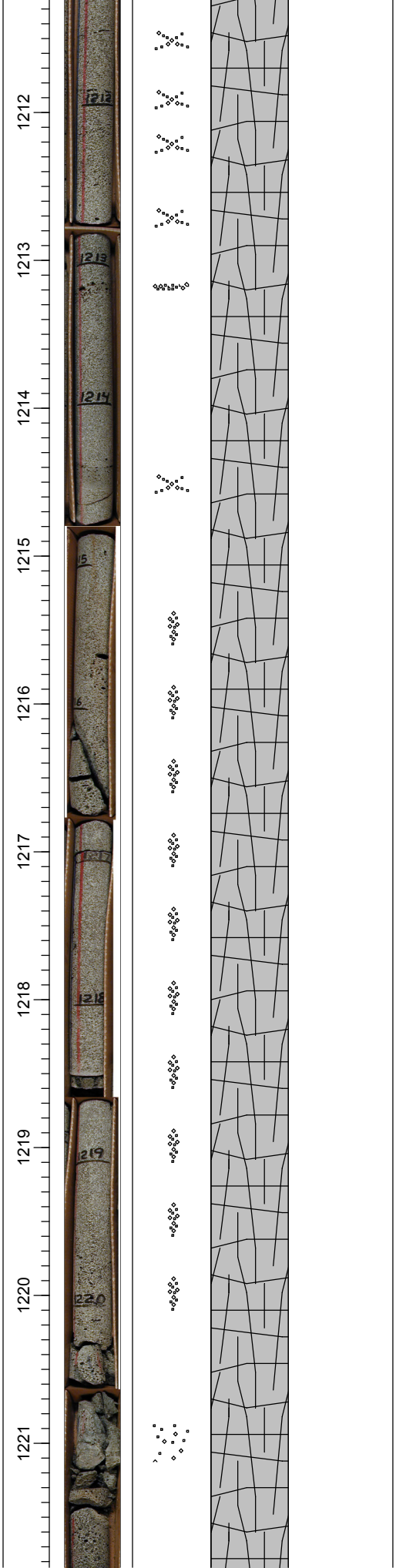
Color: Dark gray N3 basalt
Texture: Aphanitic porphyritic basalt, felted acicular plagioclase microphenocrysts in a dark gray groundmass, with large tabular plagioclase crystals randomly dispersed throughout, olivine microphenocrysts with reddish rims in spaces between plagioclases, vesicular to 1200.6 feet, diktytaxitic with megavesicles, vesicle planes from 1200.6 to 1202.5 feet, increasingly vesicular to base. Tabular 1 mm x 5 mm x 3 mm plagioclase phenocrysts show random orientation and distribution. Agglomerated spatter texture at base
Composition: 70% groundmass with acicular felted plagioclase, 20% large tabular (1mm x 3 mm x 5mm) plagioclase phenocrysts, 10% anhedral olivine microphenocrysts
Magnetic
Xenoliths: None noted
Alteration: Pale yellowish brown 10 YR 6/2 soil in vesicles and on flow textures at top, pale yellowish orange 10 YR 8/6 encrustation some fracture surfaces and in some vesicles, moderate reddish orange film on surfaces at base

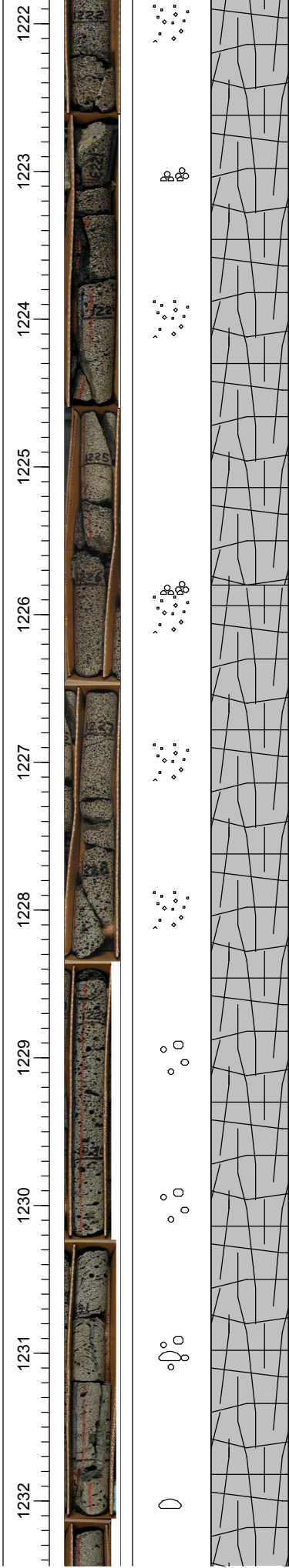




BASALT
Color: Dark gray N3 basalt
Texture: Aphanitic porphyritic basalt, felted acicular plagioclase microphenocrysts in a dark gray groundmass, with large tabular plagioclase crystals randomly dispersed throughout, olivine microphenocrysts with reddish rims near top, changing to green olivine at 1206.8 feet; vesicular to 1211 feet, diktytaxitic vesicle planes from 1211 to 1215.7 feet, diktytaxitic to massive with megavesicles and vesicle columns to 1221.4 feet, increasingly vesicular to base. Tabular 1 mm x 5 mm x 3 mm plagioclase phenocrysts show random orientation and distribution. Agglomerated spatter texture at 1223 feet and base
Composition: 68% groundmass with acicular felted plagioclase, 20% large tabular (1 mm x 3 mm x 5 mm) plagioclase phenocrysts, 10% anhedral olivine microphenocrysts, 2% anhedral to subhedral pyroxene microphenocrysts
Magnetic
Xenoliths: None noted
Alteration: Very pale orange 10 YR 8/2 clay in vesicles, pale yellowish orange 10 YR8/6 encrustation some fracture surfaces and in some vesicles, moderate reddish orange film on surfaces at top and base







BASALT
Color: Dark gray N3 basalt
Texture: Aphanitic fine-grained basalt, dark gray groundmass with plagioclase microphenocrysts and green olivine microphenocrysts, vesicular, vesicle size increases and number decreases with depth
Composition: 90% groundmass with acicular felted plagioclase, 10% anhedral olivine microphenocrysts
Xenoliths: None noted
Alteration: Whitish film on some fracture surfaces and in some vesicles, moderate reddish orange film on surfaces at top

